

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 17 Jun 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Northern Limit of Monsoon (NLM) continues to pass through lat. 20.5°N/ Long. 60°E, Diu, Surat, Nandurbar, Bhopal, Nowgong, Hamirpur, Barabanki, Bareilly, Saharanpur, Ambala and Amritsar.
- Large-scale atmospheric conditions are not favourable for further advance of monsoon into Rajasthan, remaining parts Punjab, Haryana and Delhi. However, there could be slow progress into some more parts of Gujarat state and Uttar Pradesh during next 2 to 3 days.
- A cyclonic circulation lies over Gangetic West Bengal & neighbourhood. Under its influence, widespread rainfall with isolated heavy to very heavy falls very likely over Bihar, Jharkhand, West Bengal & Sikkim and north Odisha during next 2-3 days.
- A cyclonic circulation lies over East Uttar Pradesh & neighbourhood. Under its influence, fairly widespread rainfall with isolated heavy to very heavy falls very likely over East Uttar Pradesh during next 2-3 days.
- An offshore trough runs from south Karnataka to north Kerala coast. Under its influence, widespread rainfall with isolated heavy to very heavy falls very likely over Konkan & Goa and Madhya Maharashtra during next 2-3 days; over Karnataka and Kerala & Mahe during next 2 days. Isolated extremely heavy falls also very likely over Konkan & Goa and Madhya Maharashtra during next 24 hours.
- A Western Disturbance runs from north Jammu & Kashmir to northeast Arabian Sea. Under its influence, fairly widespread rainfall with isolated heavy to very heavy falls very likely over Uttarakhand during next 2 days.
- Moderate to severe thunderstorms accompanied by frequent cloud to ground lightning very likely over Uttarakhand, Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Bihar and Jharkhand during 17th-18th June. This may cause injuries leading to casualties to people and animals staying outdoors.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rain/Thundershowers observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at most places over West Bengal & Sikkim, Jharkhand, Bihar, Himachal Pradesh, Konkan & Goa, Karnataka and Kerala & Mahe; at many places over Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Odisha, Uttarakhand, Gujarat region, Madhya Maharashtra, Marathwada, Vidarbha, Chhattisgarh and Lakshadweep; at a few places over Andaman & Nicobar Islands, Assam & Meghalaya, Jammu, Kashmir, Ladakh, Gilgit-Baltistan, East Uttar Pradesh, Madhya Pradesh and Telangana and at isolated places over West Uttar Pradesh, Haryana, Chandigarh & Delhi, Punjab, Rajasthan, Saurashtra & Kutch, Coastal Andhra Pradesh & Yanam, Rayalaseema and Tamilnadu, Puducherry & Karaikal.
- Heavy rainfall recorded (from 0830 hours IST of yesterday to 0830 hours IST of today): Heavy to very heavy rainfall with extremely heavy falls at isolated places over Konkan & Goa, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Madhya Maharashtra; heavy to very heavy rainfall at isolated places over Bihar, West Bengal & Sikkim, Kerala & Mahe and Jharkhand and Heavy rainfall at isolated places over Assam & Meghalaya, Odisha, East Uttar Pradesh, Himachal Pradesh, East Madhya Pradesh, Chhattisgarh and Coastal Karnataka.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan, Himachal Pradesh, Punjab, Uttarakhand, West Uttar Pradesh, West Rajasthan, Bihar, Odisha, Gangetic West Bengal, Assam & Meghalaya, Madhya Pradesh, Marathwada, Gujarat Region, Vidarbha, Chhattisgarh, Konkan & Goa and Coastal Andhra Pradesh & Yanam.
- Maximum Temperature Departures as on 16-06-2021: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over Arunachal Pradesh and Gujarat State; above normal (1.6°C to 3.0°C) at most places over Assam & Meghalaya; at many places over Andaman & Nicobar Islands; at a few places over Coastal Andhra Pradesh & Yanam and at isolated places over Tamilnadu & Puducherry, Kerala & Mahe and Lakshadweep. They were markedly below normal (-5.1°C and less) at most places over Uttarakhand, Punjab, Himachal Pradesh, Haryana, Chandigarh & Delhi, Bihar and Jharkhand; at many places over Gangetic West Bengal; at a few places over East Uttar Pradesh and at isolated places over West Madhya Pradesh and Chhattisgarh; appreciably below normal (-3.1°C to -5.0°C) at most places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan, West Uttar Pradesh and East Madhya Pradesh; at many

places over West Rajasthan; at a few places over East Rajasthan, North interior Karnataka and at isolated places over Vidharbha; below normal (-1.6°C to -3.0°C) at most places over Konkan & Goa, Madhya Maharashtra, Odisha and South Interior Karnataka; at many places over Telangana; at a few places over Sub-Himalayan West Bengal & Sikkim and at isolated places over Nagaland, Manipur, Mizoram & Tripura and Rayalaseema and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 40.0°C was reported at Barmer (East Rajasthan).

- Minimum Temperature Departures as on 17-06-2021: Minimum temperatures are above normal (1.6°C to 3.0°C) at many places over Saurashtra & Kutch and Andaman & Nicobar Islands and at isolated places over West Madhya Pradesh, Coastal Andhra Pradesh & Yanam and Assam & Meghalaya and. They are appreciably below normal (-3.1°C to -5.0°C) at isolated places over Saurashtra & Kutch, East Madhya Pradesh and Vidarbha; below normal (- 1.6°C to -3.0°C) at many places over Bihar; at a few places over Madhya Maharashtra, Gangetic West Bengal and Odisha; at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan, Haryana, Chandigarh & Haryana, Uttarakhand, Rajasthan, Uttar Pradesh, Konkan & Goa, Marathwada, Telangana and Tamilnadu, Puducherry & Karaikal. Today, the lowest minimum temperature of 19.6°C reported at Seoni (East Madhya Pradesh) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 17 June (Day 1): Heavy to Very Heavy Rainfall with extremely heavy falls very likely at isolated places over Konkan & Goa and ghat areas of Madhya Maharashtra; Heavy to Very Heavy Rainfall at isolated places over Uttarakhand, East Uttar Pradesh, Bihar, Jharkhand, West Bengal & Sikkim, Coastal & South Interior Karnataka and ghat areas of Tamil Nadu and Heavy Rainfall at isolated places over East Madhya Pradesh, Chhattisgarh, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat region, North Interior Karnataka and Kerala & Mahe. Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Uttarakhand, West Uttar Pradesh and East Rajasthan and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, East Uttar Pradesh, Chhattisgarh, Madhya Pradesh, Vidarbha, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat State, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana and Tamil Nadu, Puducherry & Karaikal.

Thunderstorm/Duststorm with gusty winds (speed reaching 30-40 kmph) at isolated places very likely over West Rajasthan. Strong surface wind (speed reaching 30-40 kmph) at isolated places over Coastal Andhra Pradesh & Yanam. Squally weather (wind speed reaching 40-50 gusting to 60 kmph) very likely over North and adjoining central Bay of Bengal along and off Andhra Pradesh Coast; along & off Karnataka-Goa-Maharashtra-Gujarat coasts. Strong Winds (speed 45-55 kmph gusting to 65 kmph) over central and southwest Arabian Sea and Gulf of Mannar. Fishermen are advised not to venture into these areas.

- 18 June (Day 2): Heavy to Very Heavy Rainfall very likely at isolated places over Uttarakhand, East Uttar Pradesh, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Konkan & Goa, ghat areas of Madhya Maharashtra and Coastal Karnataka. Heavy Rainfall at isolated places over West Uttar Pradesh, East Madhya Pradesh, Odisha, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Interior Karnataka and Kerala & Mahe. Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Uttarakhand, West Uttar Pradesh, Madhya Pradesh, Vidarbha and East Rajasthan and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, East Uttar Pradesh, Chhattisgarh, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat State, Marathwada, Telangana and Tamil Nadu, Puducherry & Karaikal. Thunderstorm/Duststorm with gusty winds (speed reaching 30-40 kmph) at isolated places very likely over West Rajasthan. Strong surface wind (speed reaching 30-40 kmph) at isolated places over Coastal Andhra Pradesh & Yanam. Squally weather (wind speed reaching 40-50 gusting to 60 kmph) very likely over North and adjoining central Bay of Bengal; along & off Karnataka-Goa-Maharashtra-Gujarat coasts. Strong Winds (speed 45-55 kmph gusting to 65 kmph) over central and southwest Arabian Sea. Fishermen are advised not to venture into these areas.
- 19 June (Day 3): Heavy to Very Heavy Rainfall very likely at isolated places over East Madhya Pradesh and Chhattisgarh. Heavy Rainfall at isolated places over East Uttar Pradesh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Assam & Meghalaya, Konkan & Goa, ghat areas of Madhya Maharashtra and Coastal Karnataka. Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Uttarakhand, West Uttar Pradesh, Madhya Pradesh and Vidarbha and with lightning at isolated places over Jammu

& Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, East Uttar Pradesh, Rajasthan, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Assam & Meghalaya, Gujarat State and Tamilnadu, Puducherry & Karaikal. Squally weather (wind speed reaching 40-50 gusting to 60 kmph) very likely over along & off Karnataka-Goa-Maharashtra coasts. Strong Winds (speed 45-55 kmph gusting to 65 kmph) over central and southwest Arabian Sea. Fishermen are advised not to venture into these areas.

- 20 June (Day 4): Heavy Rainfall likely at isolated places over Uttarakhand, East Uttar Pradesh, East Madhya Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Konkan & Goa and Coastal Karnataka. Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) likely at isolated places over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Madhya Pradesh and Vidarbha and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, East Uttar Pradesh, Rajasthan, Chhattisgarh, Bihar, Gangetic West Bengal, Assam & Meghalaya and Gujarat State. Squally weather (wind speed reaching 40-50 gusting to 60 kmph) likely over along & off Karnataka-Goa coasts. Strong Winds (speed 45-55 kmph gusting to 65 kmph) over central and southwest Arabian Sea. Fishermen are advised not to venture into these areas.
- 21 June (Day 5): Heavy Rainfall likely at isolated places over Andaman & Nicobar Islands and Konkan & Goa. Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) likely at isolated places over West Uttar Pradesh and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, East Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar and Gujarat State. Strong Winds (speed 45-55 kmph gusting to 65 kmph) likely over central and southwest Arabian Sea. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 17 Jun to 25 Jun 2021 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 mainly clear to partly cloudy. Daily average maximum temperature was 34.1°C which was 2.3°C above normal and the average daily minimum temperature was 24.8°C which was 0.4°C below normal for the week. Total BSSH was 31.6 hrs with an average of 5.3 hrs/day. The daily average evaporation rate was 3.3 mm/day and the average daily wind speed during the week was 2.4 kmph. Daily average RH during morning and afternoon hour was 91.6% and 67.8%, respectively.

Contingency measure:

- Sali rice (Nursery preparation): Continue sowing of pre-germinated seeds of Sali rice in nursery bed. Prior to sowing, seeds should be soaked directly in fungicidal suspension of Carbendazim or Mancozeb (@ 2.5g/kg seed/lit water) for 24 hours followed by incubation of treated seeds for 48 hours. During chemical treatment discard the floated or empty seeds from the suspension. Initiate main field preparation by thoroughly ploughing the field 4 to 5 times followed by harrowing and laddering. Ploughing should be started at least 21 days ahead of transplanting so that weeds are dried up and decayed.
- 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 1.5lit/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.
- Citrus (Fruiting stage): Proper sanitation along with disposal of fallen fruits will reduce the infestation of the sucking pests like Fruit Sucking Moth in citrus. Baiting with pesticides Emmamectin Benzoate or Flubendiamide mixed with molasses (1%) and fruit juice helps in controlling the pest. Maintain proper drainage channel in citrus orchard to drain out excess amount of water.
- Summer vegetables (land preparation & sowing): Select well drained sandy loam soil rich in organic matter for cultivation of summer bottle gourd. Collect recommended varieties like Pusa Summer Prolific long, Pusa Summer Prolific Round, Pusa Meghdoot and Pusa Manjiri for sowing in this month under fair weather condition. For cultivation of Okra as a rainy season crop, collect varieties

viz., Pusa Sawani, Arka Anamika, Parbhani Kranti or other local varieties. Select well drained sandy loam to clay loam soil rich in organic matter. Seed rate of 7kg is required for rainy season crop.

- Colocasia (Planting): Planting of corms of colocasia may be continued. Apply 1600kg of FYM or compost in per bigha land during land preparation. In addition apply fertilizer at the rate of 4.9kg Urea, 1.2kg SSP and 9.6kg MOP in one bigha land before planting of corms. In case of early planting situation, soil around gets lessened when plants grow about 30cm height and to avoid this situation go for weeding followed by earthing up at 35-40 days after planting. All dead leaves should be plucked off.
- Sugarcane (Various): Infestation of shoot borer may be observed sugarcane crop at early crop growth stages. To control this pest go for periodic inspection followed by burning or burying of the infested canes followed by proper earthing up. In case of spring planted crop, a light earthing up should be given within one and half to two months after planting followed by application of Urea @ 13kg/bigha land.

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

17-06-2021/(0800 to 0827) GMT
17-06-2021/(1330 to 1357) IST

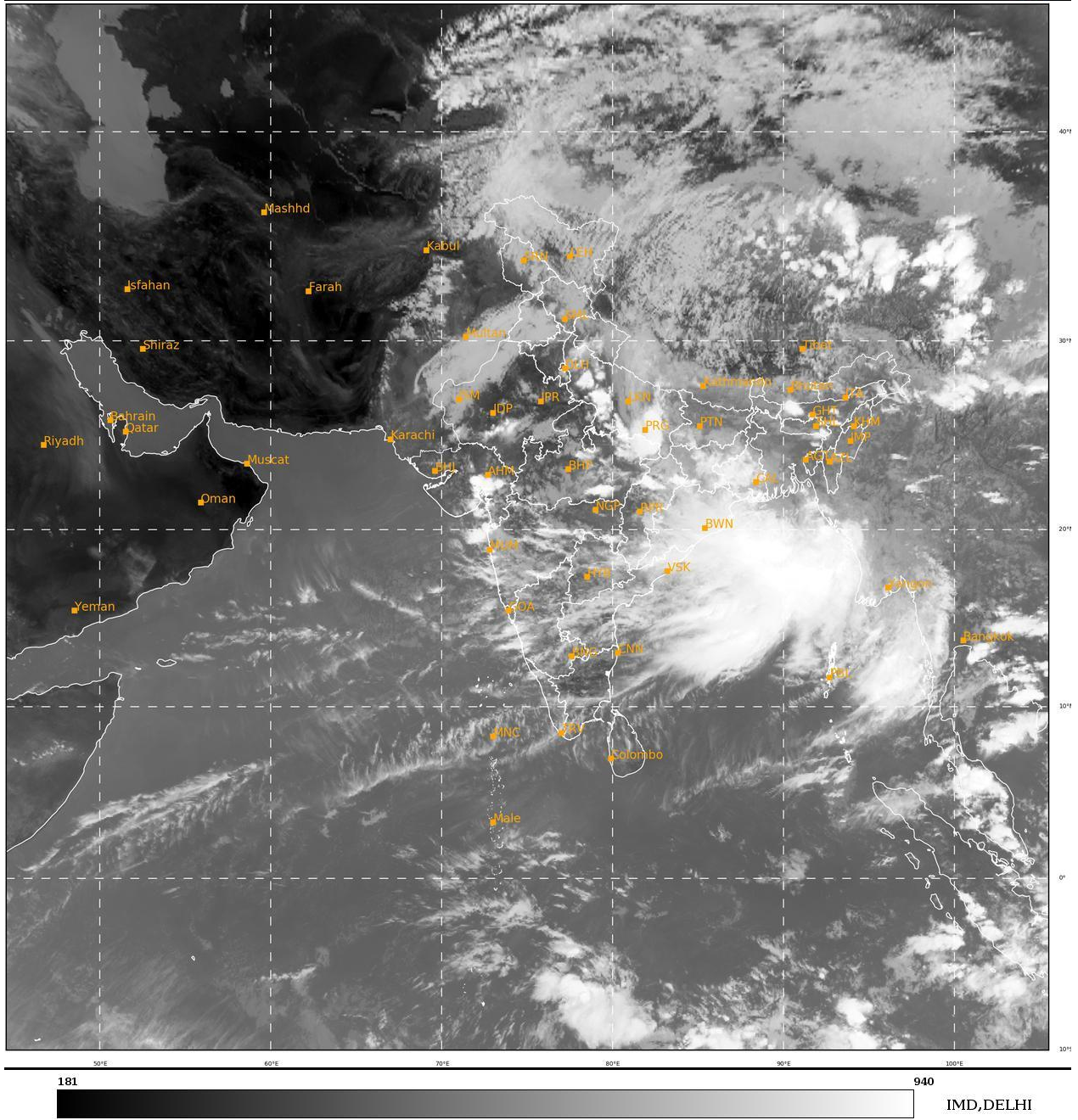


Figure: 1. Latest available satellite picture as on 17 Jun 2021 at 1357 Hrs (IST). (Source: IMD).

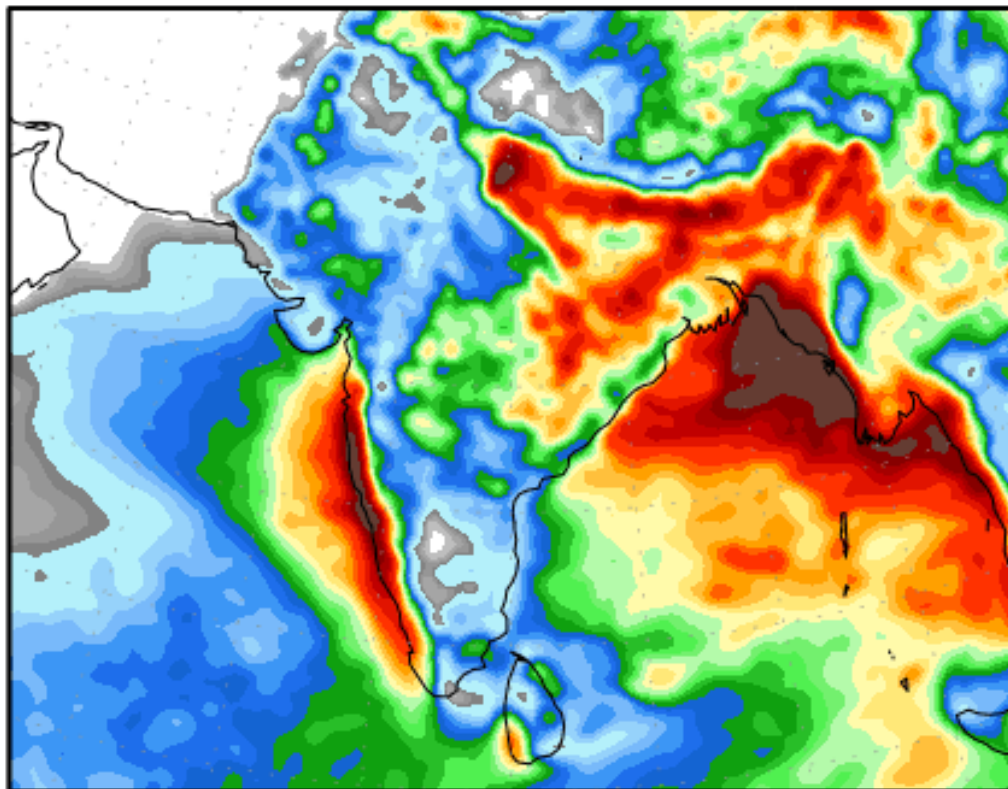


Figure:2. Precipitation forecast for 17 Jun to 25 Jun 2021 (Source: NOAA NCEP).

Disclaimer: The predictability of weather depends on many dynamic factors. The success of Agromet advisories provided here depends on the accuracy of the forecasts. In no event will India Meteorological Department (IMD) and Indian Council of Agricultural Research (ICAR) be liable to the user or any third party for any direct, indirect, incidental, consequential, special or exemplary damages or lost profit resulting from any use or misuse of the information on this bulletin.