

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

Daily Crop Weather Information as on 28 Jun 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The northern Limit of southwest monsoon (NLM) continues to pass through Lat. 26°N / Long. 70°E, Barmer, Bhilwara, Dholpur, Aligarh, Meerut, Ambala and Amritsar.
- Prevailing meteorological conditions, large scale atmospheric features and the forecast wind pattern by dynamical models suggest that no favourable conditions are likely to develop for further advance of southwest monsoon into remaining parts of Rajasthan, west Uttar Pradesh, Haryana, Chandigarh & Delhi and Punjab during next 6-7 days.
- Subdued rainfall activity is very likely to prevail over Northwest & Central India during next 5 days and over western parts of Peninsular India from 28th June onwards. Isolated/scattered thunderstorm activity accompanied with lightning & rainfall is also likely over these regions during this subdued monsoon activity period.
- Under the influence of strong moisture laden southwesterly winds; fairly widespread to widespread rainfall very likely over West Bengal & Sikkim and Northeastern states during next 5 days. Isolated heavy to very heavy rainfall very likely over Arunachal Pradesh during 28th June-01st July; Nagaland, Manipur, Mizoram & Tripura on 30th June & 01st July. Isolated extremely falls also likely over Assam & Meghalaya during 28th-30th and SubHimalayan West Bengal & Sikkim on 30th June, 01st & 2nd July, 2021.
- Subsequently, moist easterly winds are likely to pickup in strength, causing enhanced rainfall activity all along the Himalayan foothills regions of north Bihar, north Uttar Pradesh and Uttarakhand around 01st & 02nd July leading to increased inflow into the rivers originating/flowing over these regions. Isolated heavy to very heavy rainfall very likely over Uttarakhand and Himalayan foothills of East Uttar Pradesh & Bihar on 01st & 02nd July, 2021. Isolated heavy rainfall very likely over Gangetic West Bengal and Bihar on 01st & 02nd July, 2021.

- Strong surface winds (speed reaching 30-40 kmph occasionally) over Haryana and West Uttar Pradesh on 30th June and 01st July, 2021.
- Moderate thunderstorm accompanied by frequent cloud to ground lightning very likely over east Uttar Pradesh, Bihar, Jharkhand, Madhya Pradesh and Chhattisgarh during next 5 days. 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 Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim, Madhya Maharashtra, Vidarbha, Telangana, North Interior Karnataka and Lakshadweep; at many places over Assam & Meghalaya, Gangetic west Bengal, Chhattisgarh, Coastal & South Interior Karnataka; at a few places over Nagaland, Manipur, Mizoram & Tripura, Andaman & Nicobar Islands, Odisha, Bihar, Madhya Pradesh, Gujarat State, Coastal Andhra Pradesh & Yanam and Kerala & Mahe and at isolated places over Uttar Pradesh, Jharkhand, Uttarakhand, Rajasthan and Tamilnadu, Puducherry & Karaikal.
- Rainfall recorded (from 0830 hours IST of yesterday to 0830 hours IST of today); Heavy to very heavy with extremely heavy falls at isolated places over Uttarakhand and Assam & Meghalaya; heavy to very heavy rainfall at isolated places over Arunachal Pradesh, Telangana, Bihar and Konkan & Goa and heavy rainfall at isolated places over East Rajasthan, East Madhya Pradesh, Chhattisgarh, Gujarat state, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh, Rayalaseema, Tamilnadu, Puducherry & Karaikal.
- Thunderstorm/Hailstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today): Thunderstorm at isolated places over East Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Bihar, Odisha, Vidharbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Telangana, Konkan & Goa, Assam & Meghalaya, Tamilnadu, Puducherry & Karaikal, Lakshadweep and West Bengal & Sikkim.
- Maximum Temperature Departures as on 27-06-2021: were above normal (1.6°C to 3.0°C) at many places over Punjab, Vidarbha and Kerala & Mahe; at isolated places over Haryana, Chandigarh & Delhi, Assam & Meghalaya and Gangetic West Bengal; at isolated places over East Rajasthan, Odisha, East Madhya Pradesh, West Madhya Pradesh, and Saurashtra & Kutch. They were appreciably below normal (-3.1°C to -5.0°C) at many places over North Interior Karnataka and

Rayalseema and at isolated places over Coastal Andhra Pradesh; below normal (-1.6°C to -3.0°C) at many places over Telangana, Madhya Maharashtra, South Interior Karnataka and Tamilnadu, Puducherry & Karaikal; at a few places over Andaman & Nicobar Islands; at isolated places over East Uttar Pradesh and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 41.8°C was reported at Phalodi (West Rajasthan).

- Minimum Temperature Departures as on 28-06-2021: Minimum temperatures are above normal (1.6°C to 3.0°C) at many places over Uttarakhand and at isolated places over Punjab, West Uttar Pradesh, East Rajasthan, East Madhya Pradesh, Saurashtra & Kutch, Odisha, Sub-Himalayan west Bengal & Sikkim and Nagaland, Manipur, Mizoram & Tripura. They are below normal (-1.6°C to -3.0°C) at most places over Marathwada; at a many places over Telangana; at a few places over Gujarat Region, Coastal Andhra Pradesh & Yanam and Lakshadweep and at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, West Madhya Pradesh, Madhya Maharashtra, Vidarbha, North Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Rayalaseema and near normal over rest parts of the country. Today, the lowest minimum temperature of 20.0°C reported at Bidar (North Interior Karnataka) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 28 June (Day 1): Heavy to Very Heavy Rainfall with extremely heavy falls at isolated places very likely at isolated places over Assam & Meghalaya; Heavy to Very Heavy Rainfall at isolated places over Sub-Himalayan West Bengal & Sikkim and Arunachal Pradesh and Heavy Rainfall at isolated places over Uttarakhand, East Rajasthan, West Madhya Pradesh, Vidarbha, Bihar, Nagaland, Manipur, Mizoram & Tripura, Gujarat State, Madhya Maharashtra, Marathwada, Konkan & Goa and Telangana. Thunderstorm with lightning & gusty winds (speed 30-40 kmph) very likely at isolated places over West Uttar Pradesh, Rajasthan, West Madhya and Vidarbha and with lightning at isolated places over Uttarakhand, East Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, North Interior Karnataka, Tamilnadu, Puducherry & Karaikal, Lakshadweep, Madhya Maharashtra and Marathawada. Strong Winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest and Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.

- 29 June (Day 2): Heavy to Very Heavy Rainfall with extremely heavy falls at isolated places very likely at isolated places over Assam & Meghalaya; Heavy to Very Heavy Rainfall at isolated places over Sub-Himalayan West Bengal & Sikkim and Arunachal Pradesh and Heavy Rainfall at isolated places over Bihar, Gangetic West Bengal and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm with lightning very likely at isolated places over Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana, Tamilnadu, Puducherry & Karaikal, Lakshadweep, Madhya Maharashtra and Marathawada. Strong Winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest and Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.
- 30 June (Day 3): Heavy to Very Heavy Rainfall with extremely heavy falls at isolated places very likely at isolated places over SubHimalayan West Bengal & Sikkim and Assam & Meghalaya; Heavy to Very Heavy Rainfall at isolated places over Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura and Heavy Rainfall at isolated places over Bihar, Gangetic West Bengal and Telangana. Thunderstorm with lightning very likely at isolated places over East Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Odisha, Coastal Andhra Pradesh & Yanam, Telangana and Tamilnadu, Puducherry & Karaikal. Strong Winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest and Westcentral Arabian Sea, North Arabian sea and along & off Gujarat coast. Fishermen are advised not to venture into these areas.
- 01 July (Day 4): Heavy to Very Heavy Rainfall with extremely heavy falls at isolated places likely at isolated places over SubHimalayan West Bengal & Sikkim; Heavy to Very Heavy Rainfall at isolated places over East Uttar Pradesh, Bihar, Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura and Heavy Rainfall at isolated places over Uttarakhand, Jharkhand, Odisha, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam, Coastal Karnataka, Telangana and Tamilnadu, Puducherry & Karaikal. Thunderstorm with lightning likely at isolated places over Uttarakhand, Uttar Pradesh, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Odisha, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Tamilnadu, Puducherry & Karaikal. Strong Winds (speed 40-50 kmph gusting to 60 kmph) likely over Southwest and Westcentral Arabian Sea, North Arabian sea and along & off Gujarat coast. Fishermen are advised not to venture into these areas.

- 02 July (Day 5): Heavy to Very Heavy Rainfall with extremely heavy falls at isolated places likely at isolated places over SubHimalayan West Bengal & Sikkim; Heavy to Very Heavy Rainfall at isolated places over Uttarakhand, East Uttar Pradesh, Bihar and Assam & Meghalaya and Heavy Rainfall at isolated places over West Uttar Pradesh, Odisha, Coastal Andhra Pradesh & Yanam, Coastal Karnataka, Rayalaseema, Telangana, Tamilnadu, Puducherry & Karaikal. Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm with lightning likely at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Tamilnadu, Puducherry & Karaikal. Strong Winds (speed 40-50 kmph gusting to 60 kmph) likely over Southwest and Westcentral Arabian Sea, North Arabian sea and along & off Gujarat coast. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 28 Jun to 06 Jul 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)

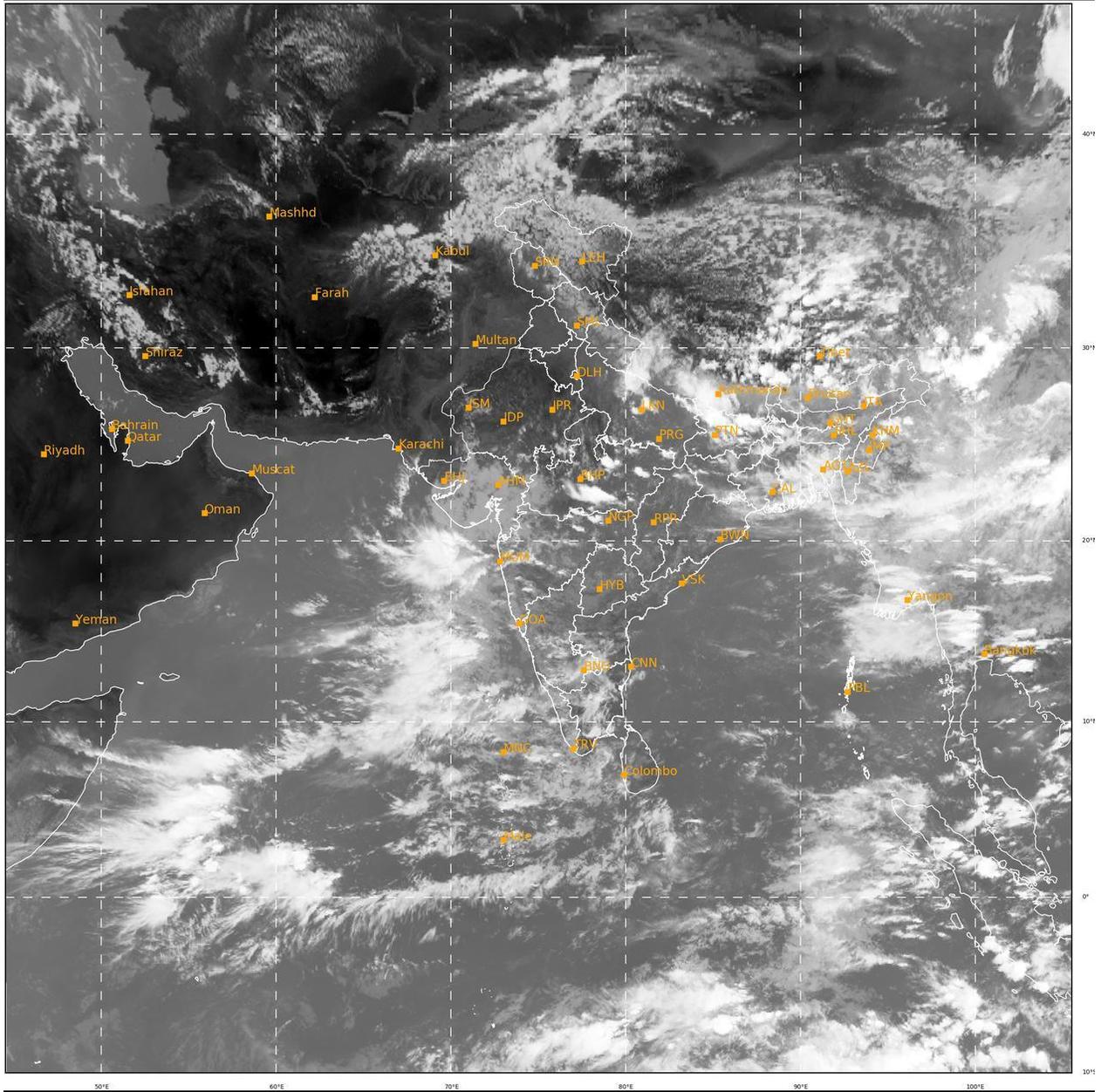
West Bengal

Weather condition:

Weather conditions during the 25th week at Mohanpur, West Bengal: Maximum temperature: 27.0 to 32.0 0C, minimum temperature: 23.5 to 26.0 0C, bright sun shine hours: 0.0 to 6.8 hours, Morning-time relative Humidity: 94 to 100 %, after noon-time R.H: 79 to 100%, weekly total pan evaporation: 8.8 mm, total weekly rainfall is 83.2 mm and average daily wind speed is around 1.47 km/h.

Contingency measure:

- Rice: Prepare the land thoroughly for kharif rice. Use the monsoon rainfall. Apply 2-3 ton well decomposed FYM at the time of final land preparation. Collect good quality seed and treat the seed with carbendazim @ 2 gm/Kg seed to avoid seed borne disease in the main field. To control weed at nursey apply pretilachlor+safener 0.3 kg per hectare, on 4th day after sowing. Then apply a thin film of water.
- Jute: In case of late sown crop, jute may be harvested at 120 to 125 DAS. This time attack of jute hairy caterpillar and semi looper may be prevalent. For both insects, apply 1.5 ml Chlorpyriphos per lt of water. Do not use mud and banana stem during retting.
- Cucumber: After cessation of rain , downy mildew disease will appear in cucubits. To control it, go for alternate spray of Metalaxyl + Mancozeb @ 2 g/lt and Azoxystrobin + Tebuconazole @0.6 g/litre of water at 10 days interval.
- Chilli: Prepare nursery for chilli, kharif Cucurbits, brinjal and early cauliflower (maturing in the month of September). It is also advised to use shed nets, which helps in reducing vector borne diseases and produce healthy seedlings. Nursery should be covered by net at the height of 6.5 feet for protection against sunlight, temperature,rainfall. Treat the seeds with Carbendazim 50 WP 2g/lt of water per Kg seed.Soak the seeds for 10 hrs,drain excess water,dry it in the shade before sowing.



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Figure: 1. Latest available satellite picture as on 28 Jun 2021 at 1356 Hrs (IST). (Source: IMD).

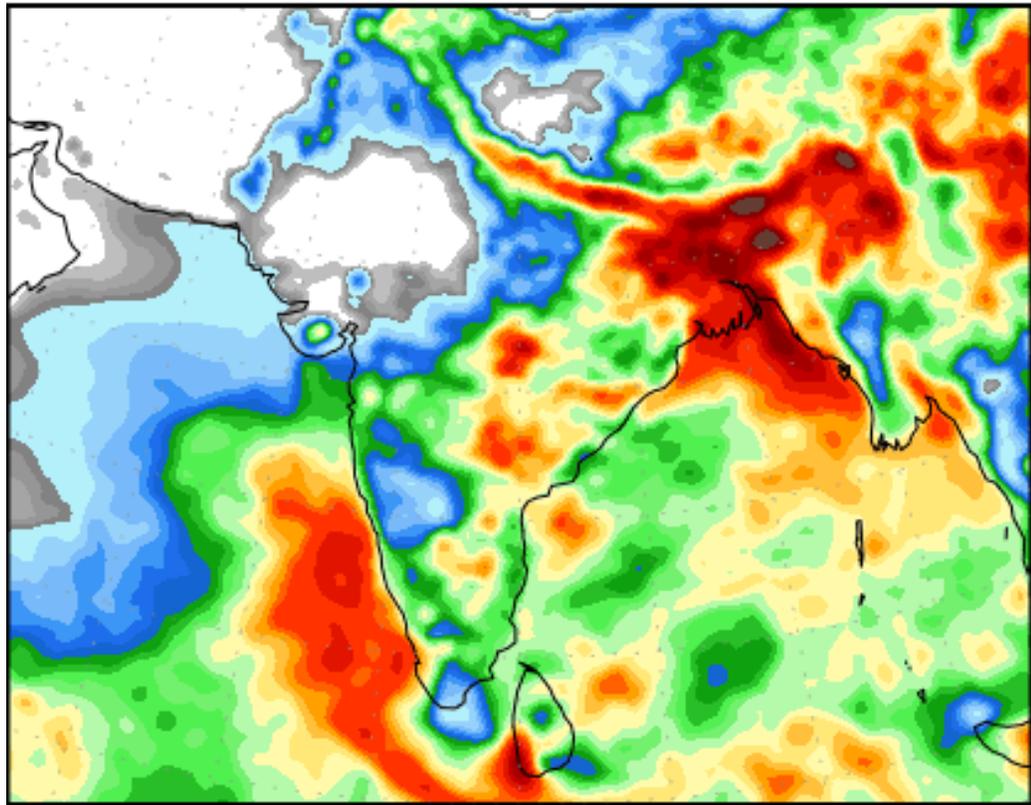


Figure:2. Precipitation forecast for 28 Jun to 06 Jul 2021 (Source: NOAA NCEP).

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