

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 25 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.
- Present meteorological conditions as well as model forecasts indicate that large scale features as well as prevailing wind patterns over the region are not likely to be favourable during the forecast period for further advance of southwest monsoon into remaining parts of Rajasthan, west Uttar Pradesh, Haryana, Chandigarh & Delhi and Punjab.
- A cyclonic circulation lies over Jharkhand & neighbourhood extending upto mid-tropospheric levels. it is very likely to meander over the same area during next 3 days. Under its influence, fairly widespread to widespread rainfall with isolated heavy falls and thunderstorm & lightning very likely over most parts of East & adjoining Central India (Bihar, Jharkhand, Chhattisgarh, Odisha and East Madhya Pradesh) during next 3 days and reduction in rainfall intensity and distribution thereafter. Isolated very heavy rainfall also very likely over Chhattisgarh and East Madhya Pradesh during next 24 hours.
- Under the influence of strengthening of moist southwesterly winds; fairly widespread to widespread rainfall very likely over Northeast India during next 5 days. Isolated heavy rainfall very likely over Assam & Meghalaya and Arunachal Pradesh during next 3 days and very heavy rainfall over Assam & Meghalaya during subsequent 3 days.
- Moderate to severe thunderstorms accompanied by frequent cloud to ground lightning very likely over Madhya Pradesh and Chhattisgarh during next 24 hours. 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 Andaman & Nicobar Islands, SubHimalayan West Bengal & Sikkim, East Madhya Pradesh, Konkan & Goa, Vidarbha and Coastal Karnataka; at many places over Arunachal Pradesh, Assam & Meghalaya, Jharkhand, Bihar, East Uttar Pradesh, West Madhya Pradesh, Gujarat Region, Madhya Maharashtra, Chhattisgarh, North Interior Karnataka, Lakshadweep and Nagaland, Manipur, Mizoram & Tripura; at a few places over Odisha, Gangetic West Bengal, Punjab, Himachal Pradesh, East Rajasthan, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana and South Interior Karnataka and at isolated places over West Uttar Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, West Rajasthan, Saurashtra & Kutch, Rayalaseema, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe.
- Rainfall recorded (from 0830 hours IST of yesterday to 0830 hours IST of today) Heavy to Very Heavy Rainfall at isolated places over Madhya Pradesh, East Uttar Pradesh, Gujarat Region and Chhattisgarh and heavy rainfall at isolated places over Odisha, Jharkhand, Bihar, Konkan & Goa and Assam & Meghalaya.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at a few places over East Uttar Pradesh and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh, Chhattisgarh, West Rajasthan, Uttar Pradesh, Madhya Pradesh, Bihar, Jharkhand, Tripura and Saurashtra & Kutch.
- Maximum Temperature Departures as on 24-06-2021: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over Kerala & Mahe; above normal (1.6°C to 3.0°C) at many places over Coastal Karnataka; at a few places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, West Bengal & Sikkim and South Interior Karnataka; at isolated places over Saurashtra & Kutch and West Rajasthan. They were markedly below normal (-5.1°C or less) at many places over Vidarbha; at a few places over East Madhya Pradesh; at isolated places over East Uttar Pradesh and West Madhya Pradesh; appreciably below normal (-3.1°C to -5.0°C) at most places over Chhattisgarh; at a few places over Himachal Pradesh, Odisha, Madhya Maharashtra, Marathawada and Telangana; at isolated places over Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal; below normal (-1.6°C to -3.0°C) at most places over Gujarat Region; at a few places over East Rajasthan and East Uttar Pradesh and near normal over rest parts of the

country. Yesterday, the highest maximum temperature of 43.4°C was reported at Churu (West Rajasthan).

- Minimum Temperature Departures as on 25-06-2021: Minimum temperatures are above normal (1.6°C to 3.0°C) at a few places over Assam & Meghalaya and Sub-Himalayan West Bengal & Sikkim. They are appreciably below normal (-3.0°C to -5.0°C) at a few places over Himachal Pradesh and at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Madhya Pradesh and Telangana and below normal (-1.6°C to -3.0°C) at a few places over Vidarbha and Tamil Nadu, Puducherry & Karaikal and at isolated places over Haryana, Chandigarh & Delhi, Rajasthan, Uttar Pradesh and Gujarat Region and near normal over rest parts of the country. Today, the lowest minimum temperature of 18.6°C was reported at Bangalore (South Interior Karnataka) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 25 June (Day 1): Heavy to Very Heavy Rainfall very likely at isolated places over East Madhya Pradesh and Chhattisgarh and Heavy Rainfall at isolated places over East Uttar Pradesh, West Madhya Pradesh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Gujarat Region and Konkan & Goa. Thunderstorm with lightning & gusty winds (speed 40-50 kmph) very likely at isolated places over West Rajasthan and Andaman & Nicobar Islands; with lightning & gusty winds (speed 30-40 kmph) at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi and Telangana and with lightning at isolated places over East Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Coastal Andhra Pradesh & Yanam. Strong Winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest, Westcentral and North Arabian Sea and along & off Gujarat coast; Squally weather (speed 40-50 kmph gusting to 60 kmph) over south Andaman sea. Fishermen are advised not to venture into these areas.
- 26 June (Day 2): Heavy to Very Heavy Rainfall very likely at isolated places over Chhattisgarh and Assam & Meghalaya; Heavy Rainfall at isolated places over East Madhya Pradesh, Vidarbha, Bihar, Jharkhand, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura and Coastal Andhra Pradesh & Yanam. Thunderstorm with lightning & gusty winds (speed 30-40 kmph) at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan &

Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Rajasthan and Andaman & Nicobar Islands and with lightning at isolated places over East Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Coastal Andhra Pradesh & Yanam. Strong Winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest, Westcentral and North Arabian Sea and along & off Gujarat coast. Fishermen are advised not to venture into these areas.

- 27 June (Day 3): Heavy Rainfall very likely at isolated places over Chhattisgarh, Bihar, Jharkhand, Odisha, Arunachal Pradesh, Assam & Meghalaya, Telangana, Coastal & South Interior Karnataka and Coastal Andhra Pradesh & Yanam. Thunderstorm with lightning very likely at isolated places over Uttarakhand, East Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Odisha, Telangana, Coastal & South Interior Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Coastal Andhra Pradesh & Yanam. 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.
- 28 June (Day 4): Heavy to Very Heavy Rainfall at isolated places over Assam & Meghalaya and Heavy Rainfall at isolated places over Vidarbha, West Bengal & Sikkim, Coastal & South Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm with lightning at isolated places over East Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Coastal Andhra Pradesh & Yanam, Telangana, Coastal & South Interior Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe. Strong Winds (speed 40-50 kmph gusting to 60 kmph) over Southwest and Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.
- 29 June (Day 5): Heavy to Very Heavy Rainfall at isolated places over Assam & Meghalaya and Heavy Rainfall at isolated places over East Madhya Pradesh, West Bengal & Sikkim, Coastal & South Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm with lightning at isolated places over East Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Coastal Andhra Pradesh & Yanam, Telangana, Coastal & South Interior Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe. Strong Winds (speed 40-50 kmph gusting to 60 kmph) over Southwest and Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.

- The weather outlook for seven days i.e., 25 Jun to 03 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)

Himachal pradesh

Weather condition:

The maximum and minimum temperature ranged between 26.5 to 31.5°C and 16.4 to 19.5°C which was below normal by 0.9 to 3.2°C and 0.5 to 3.6 °C, respectively. 9.2 mm rainfall was received during the week against the normal of 62.0 mm. The relative humidity varied between 48-86 % and sunshine hours between 3.5-11.5 hrs/day with variable sky conditions (Octa 0-7). The evaporation rate varied 3.0-8.7 mm per day.

Contingency measure:

- Kharif Crops: Do deep ploughing of fields after harvesting of rabi crops. It helps in destroying the eggs and pupating stages of insects and weed seeds. After harvesting of rabi crops farmers are advised to test their soil from certified agencies and to do laser leveling in their field if required. RICE NURSERY: Time for sowing of Paddy nursery and ensure proper soil moisture before nursery sowing and treat the seed before nursery sowing with bavistin @2.5 gm per kg of seed.
- Maize: Maize sowing is approaching also make arrangement for seed and herbicide for weed control. PULSES: Advised to intercropping operation and weed free in moong and mash in irrigated areas advised. In rain fed region ensure proper moisture.
- Fodder Crops: Advised to sowing of fodder maize alongwith cowpeas and soybean in irrigated areas. Directed to spray glyphosate 1% solutions in the grasslands/pastures having lantana bushes with 2-3 leaves stage. For Ageratum, erigeron, bidens and parthenium in grasslands, spray 2- 4-D @ 60 ml in 30 litre of water in one kanal. Ensure spray during morning and evening in low wind conditions. Avoid spray near to crop lands where crop ready for harvest. In mid hill regions one cut of berseem can be taken.
- Vegetable Crops: High temperature expected, farmers are advised for harvesting of mature vegetables at morning and evening and after harvesting of crops keep it in the shade .If no rains are received light and frequent irrigation in morning and evening other wise lead to poor pollination and thus drop in yield of the crop.
- Okra & Frenchbean: Sowing of early crop of ladies finger advised. Seed rates should be 10-15 kilogram per acre. Optimum soil moisture level should be maintained in cucurbitaceous crops as dry conditions may lead to poor pollination and thus drop in yield of the crop. Advised sowing of frenchbean in

the field. Monitor of lady finger crop against attack of mite is advised. Sowing of spinach, coriander, fenugreek may be done in present weather conditions.

- Poly House Agriculture: It is optimum time for nursery sowing of Tomato, Brinjal, chillies and capsicum crops in poly house. Cucurbits plantation may be done in polytubes under the polyhouse.. For control of mites in polyhouse spray 10ml Prorazite 57 EC or Spiromeciphen 22.9 SC 10litres of water. Donot harvest vegetable atleast for seven days of the spray. Sowing of green coriander, raddish & turnip.
- Tea: Advised picking in tea at 8-9 days interval to maintain the quality and productivity. Monitor for mites and Milli bug in the orchards, for control of milli bug spray recommended chemicals.
- Livestock: To protect animals from high temp stress splash water on their body 2-3 times a day. Milk the animals during cooler place Monitor the animals for FMD and advised Protect calves against parasites, get them dewormed with piperazine liquid @ 4 ml/kg body weight, first at 10 days of age, then 15 days and then monthly upto three months of age and then quarterly upto one year of age. Vaccination. Ecto-parasite attack is expected in this weather for control spray Butox @ 2ml per litre in cowshed Give mixture of hay & green fodder.
- Poultry: To protect animals from high temp stress splash water on their body 2-3 times a day. Milk the animals during cooler place Monitor the animals for FMD and advised Protect calves against parasites, get them dewormed with piperazine liquid @ 4 ml/kg body weight, first at 10 days of age, then 15 days and then monthly upto three months of age and then quarterly upto one year of age. Vaccination. Ecto-parasite attack is expected in this weather for control spray Butox @ 2ml per litre in cowshed Give mixture of hay & green fodder.
- Mushrooms: Maintain room temperature 18-22oC and relative humidity around 85% for successful cultivation.
- Horticulture: Mango plant hopper expected , for control spray, recommended chemicals. Apply alkathene or sticky grease band 15-20 cm wide on mango plants to control upward movement of mango mealy bug.
- Agro Forestry: Optimum time for sowing of seeds of babul, subabul, khair, amla and prosopis in polythene bags for raising nursery. The saplings of eucalyptus and bamboo may be transfer to polythene bags.

SAT : INSAT-3D IMG
 IMG_TIR1 10.8 um
 L1C Mercator

25-06-2021/(0800 to 0826) GMT
 25-06-2021/(1330 to 1356) IST

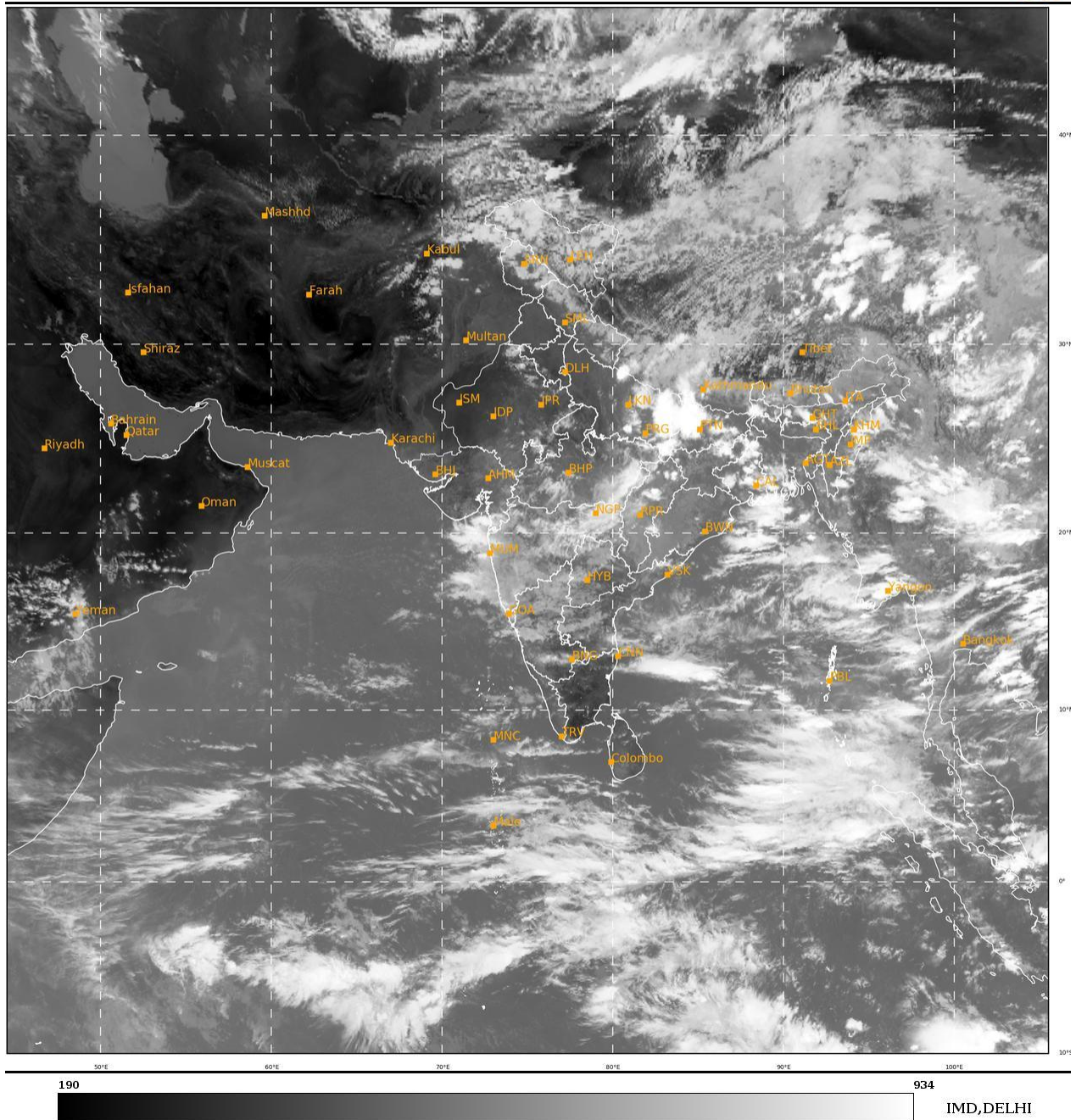


Figure: 1. Latest available satellite picture as on 25 Jun 2021 at 1356 Hrs (IST). (Source: IMD).

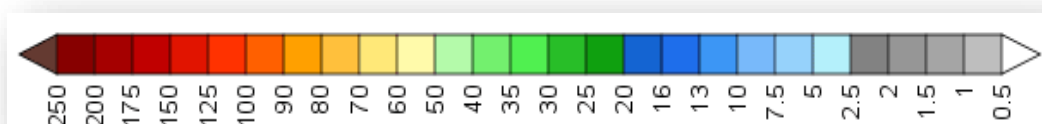
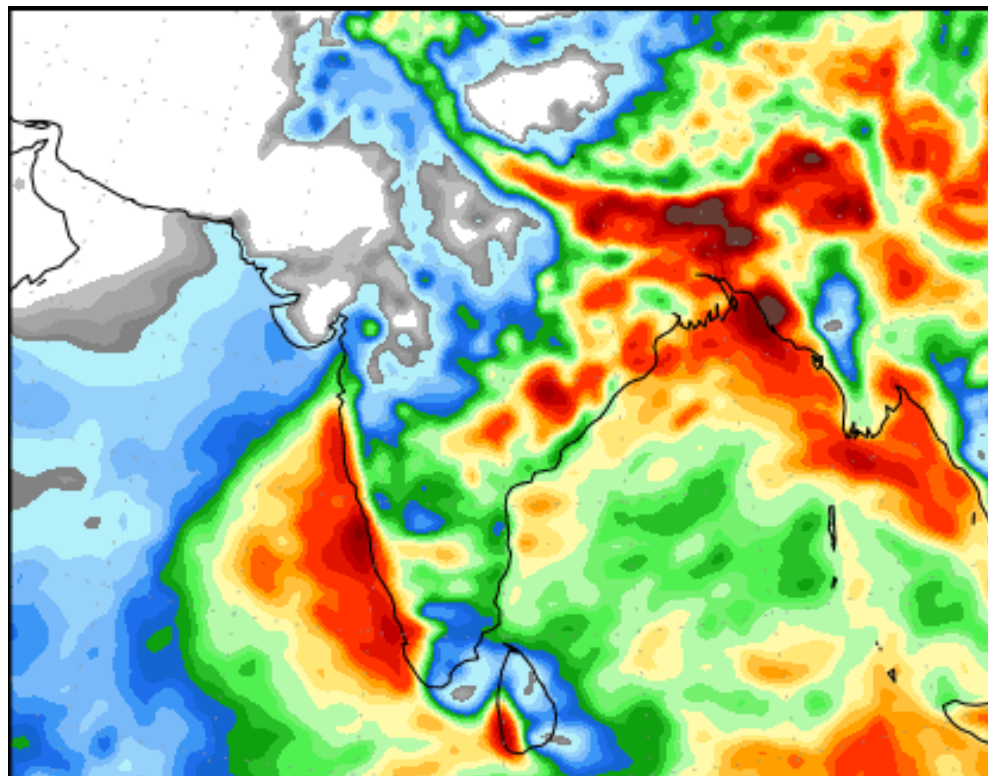


Figure:2. Precipitation forecast for 25 Jun to 03 Jul 2021 (Source: NOAA NCEP).

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