

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 01 May 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A cyclonic circulation lies over northeast Madhya Pradesh & neighbourhood and a trough runs from this circulation to West Bengal at lower levels. A trough in westerlies at runs roughly along longitude 88°E to the north of latitude 22°N in middle levels. The trough is very likely to persist over East India during next 3-4 days. Under its influence, isolated to scattered rainfall/thunderstorm activity likely over east & northeast India during next 24 hours.
- Thereafter, due to strengthening of southerly/southwesterly from Bay of Bengal to east & northeast India at lower levels. Rain/thundershower activity is very likely to increase over east & northeast India from 2 to 6 May with scattered to widespread rain/thundershower over these regions.
- Isolated heavy rainfall also likely over Assam & Meghalaya during 1-3 May; over Nagaland, Manipur, Mizoram & Tripura on 3 & 4 May; and over Odisha and West Bengal & Sikkim from 3 to 5 May, 2021.
- Intense thunderstorm activity accompanied with strong gusty winds of the order of 40-60 kmph also likely during next 24 hours over parts of east and northeast India.
- Under the influence of a cyclonic circulation over south Tamilnadu & neighbourhood at lower levels and likely formation of a northsouth trough/wind discontinuity from today, light/moderate isolated to fairly widespread rain/thunder is very likely over south Peninsular India (particularly over Kerala, South & coastal Karnataka) during next 4-5 days. Isolated heavy rainfall is also likely over Kerala & Mahe on 1st May and 3 & 4 May, over coastal Andhra Pradesh on 3 May and over South Interior Karnataka on 4 May.
- Due to the rain/thunderstorm expected across the country, no significant heat wave is likely over any part of the country during next 4-5 days.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rain/Thundershowers observed (from 0830 to 1730 hrs IST of yesterday): at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan, Muzaffarabad, West Rajasthan, East Uttar Pradesh, Madhya Maharashtra, Odisha, Telangana, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura.
- Thunderstorm/Hailstorm observed (from 1730 hrs IST of yesterday to 0530 hrs IST of today): at isolated places over Rajasthan, Gujarat Region, Odisha, Haryana, Chandigarh & Delhi, Gangetic West Bengal, Madhya Maharashtra, Marathwada, Telangana, South Interior Karnataka, Kerala & Mahe, Saurashtra & Kutch, Chhattisgarh, Jharkhand, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam and Rayalseema.
- Maximum Temperature Departures as on 30-04-2021: Maximum temperatures were markedly above normal (5.1°C or more) at many places over Assam & Meghalaya and Arunachal Pradesh; at a few places over Nagaland, Manipur, Mizoram & Tripura; appreciably above normal (3.1°C to 5.0°C) at most places over Sub-Himalayan West Bengal & Sikkim, at a few places over Konkan & Goa; at isolated places over Bihar and Gangetic West Bengal; above normal (1.6°C to 3.0°C) at most places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, West Rajasthan, Madhya Pradesh, Vidarbha, Saurashtra & Kutch, Coastal Karnataka and Tamilnadu, Puducherry & Karaikal. They were below normal (-1.6°C to -3.0°C) at isolated places over at many places over North Interior Karnataka; East Uttar Pradesh, Madhya Maharashtra, Telangana, Coastal Andhra Pradesh & Yanam and Rayalaseema and near normal over rest parts of the country. Yesterday, The highest maximum temperature of 45.0°C was reported at Nowgong (East Uttar Pradesh).
- Minimum Temperature Departures as on 30-04-2021: Minimum temperatures were markedly above normal (5.1°C or more) at many places over West Rajasthan; above normal (1.6°C to 3.0°C) at many places over West Bengal & Sikkim, Assam & Meghalaya and Gujarat Region; at a few places over East Rajasthan, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Odisha, Marathwada and Tamil Nadu, Puducherry & Karaikal; at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Punjab, East Uttar Pradesh, Madhya Pradesh and Saurashtra & Kutch. They were appreciably below normal (-3.1°C to -5.0°C) at a few places over Lakshadweep; below normal (-1.6°C to -3.0°C) at most places over Coastal Karnataka; at a few places over North Interior Karnataka; at isolated places over Haryana, Chandigarh & Delhi, Madhya Maharashtra, Konkan & Goa and Coastal Andhra

Pradesh & Yanam and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 17.0°C was reported at Bulsar (Gujarat Region) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 01 May (Day 1): Thunderstorm with lightning & squall (speed reaching 50-60 kmph) very likely at isolated places over Gangetic West Bengal; with lightning, hail & gusty wind (speed reaching 30-40 kmph) at isolated places over Vidarbha, Odisha, Marathwada, Madhya Maharashtra and Telangana; with lightning & gusty wind (speed reaching 40-50 kmph) at isolated places over Jharkhand, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over Bihar, Sub-Himalayan West Bengal & Sikkim, Gujarat State and Kerala & Mahe and with lightning at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Chhattisgarh, Arunachal Pradesh, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Karnataka, Tamil Nadu, Puducherry & Karaikal and Lakshadweep. Thunderstorm/Duststorm (speed reaching 40-50 kmph) very likely at isolated places over Rajasthan. Heavy rainfall very likely at isolated places over Assam & Meghalaya and Kerala & Mahe.
- 02 May (Day 2): Thunderstorm with lightning & squall (speed reaching 50-60 kmph) very likely at isolated places over Gangetic West Bengal; with lightning, hail & gusty wind (speed reaching 30-40 kmph) at isolated places over Marathwada and Madhya Maharashtra; with lightning & gusty wind (speed reaching 40-50 kmph) at isolated places over Jharkhand and Odisha; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over Bihar, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat State and Kerala & Mahe and with lightning at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Arunachal Pradesh, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Karnataka and Lakshadweep. Thunderstorm/Duststorm (speed reaching 40-50 kmph) very likely at isolated places over Rajasthan. Heavy rainfall very likely at isolated places over Assam & Meghalaya.
- 03 May (Day 3): Thunderstorm with lightning & gusty wind (speed reaching 40-50 kmph) likely at isolated places over East Uttar Pradesh, Jharkhand, Gangetic West Bengal and Odisha; with lightning & gusty wind (speed reaching 30-40

kmph) at isolated places over Uttarakhand, Bihar, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana and Kerala & Mahe and with lightning at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Arunachal Pradesh, Madhya Maharashtra, Marathwada, Konkan & Goa, Rayalaseema, Karnataka and Lakshadweep. Heavy rainfall likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, West Bengal & Sikkim, Odisha, Coastal Andhra Pradesh & Yanam and Kerala & Mahe.

- 04 May (Day 4): Thunderstorm with lightning & gusty wind (speed reaching 40-50 kmph) likely at isolated places over Gangetic West Bengal; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over Uttarakhand, Bihar, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Kerala & Mahe and with lightning at isolated places over East Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Arunachal Pradesh, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalseema, Coastal & North Interior Karnataka and Lakshadweep. Heavy rainfall likely at isolated places over Nagaland, Manipur, Mizoram & Tripura, West Bengal & Sikkim, Odisha, South Interior Karnataka and Kerala & Mahe.
- 05 May (Day 5): Thunderstorm with lightning & gusty wind (speed reaching 40-50 kmph) likely at isolated places over West Bengal & Sikkim with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over Uttarakhand, Bihar, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe, Coastal & South Interior Karnataka and with lightning at isolated places over Odisha, Coastal Andhra Pradesh & Yanam and Lakshadweep. ♦ Heavy rainfall likely at isolated places over Nagaland, Manipur, Mizoram & Tripura, West Bengal & Sikkim, Odisha, South Interior Karnataka and Kerala & Mahe.
- The weather outlook for seven days i.e., 01 May to 09 May 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)

Konkan region

Weather condition:

Atmospheric condition was cloudy during morning hours around Dapoli during last week. Therefore 6.5 to 10.1 Bright sunshine hours was recorded during last week. During last week 0.0 mm rainfall was recorded at Agrometeorological observatory, Dr.

B.S.K.K.V. Dapoli. The maximum and minimum temperature ranged from 33.0 to 35.2 and 16.6 to 22.8 oC respectively. Wind velocity ranged from 4.2 to 5.3 km and wind was blowing from south westerly Direction.

Contingency measure:

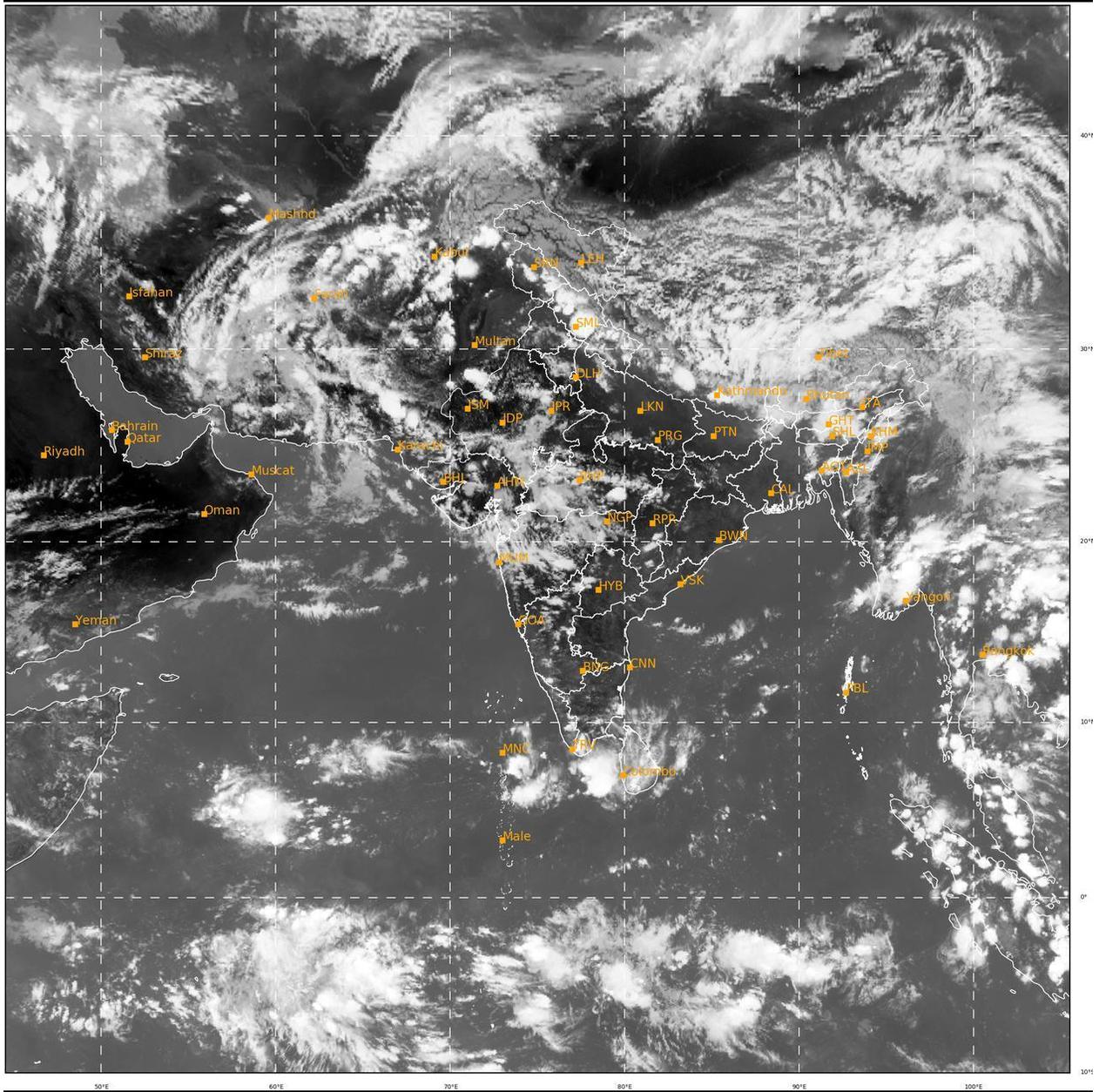
- General advisory: Due to forecast of thunderstorm along with lightning and rain at isolated places over district from 30th April to 2nd May, 2021, keep farm animals at safe place and away from open water, pond or river. Also harvest and stored the matured pulse crop at protective and safe place
- SMS: For availability of seeds and planting materials, please contact to University seed department tel.no. 8275013396 during office hours
- Mango: There is forecast for very light rainfall from 30th April to 4th May 2021, harvest the matured mango fruits at 80 to 85% maturity in the morning or evening hours during clear weather (no rainfall) and keep the harvested fruits in shade to prevent spongy tissue disease and from heat. To prevent incidence of post-harvest diseases fruit rot on fruits, place the fruits in hot water of 52oC for 10 minutes and then keep for ripening. Use C.F.B. (corrugated fiber box) for packing. Transport of harvested fruits should be done preferably during night hours. There is forecast for very light rainfall from 30th April to 4th May 2021, there is possibility of incidence of anthracnose disease on fruits of mango, if rainfall received then undertake the protective spraying for anthracnose disease, spray Carbendazim 12% + Mancozeb 63% @ 10 g per 10 liter of water. There is possibility for incidence of fruit fly on mango fruits. Collect and destroy all fallen fruits and install Rakshak fruit fly trap developed by University @ 2 traps per acre. To protect the Mango tree from increasing temperature, apply bordopaste to the base of stem.
- Cashewnut: Clean cashewnut orchard by removing all diseased and dried branches to maintain good sanitation in orchard. Apply bordopaste on cut portion of tree. To protect the cashewnut tree from increasing temperature, apply bordopaste to the base of stem.
- Kharif rice: Start the land preparation operation for kharif season and expose soil to sun which will help in controlling weeds effectively. Procure the rice seed as per requirement for kharif season. Early rice varieties Ratnagiri-1, Karjat-3 for bold seeded, Ratnagiri-5, Ratnagiri-24, Phondaghat-1, Karjat-7, hybrid Sahyadri-2 and Sahyadri-4 for fine seeded and Karjat-4 is for very fine seeded, mid-late rice varieties Ratnagiri-7, Karjat -5 for bold seeded, Ratnagiri-4, Ratnagiri-6, Palghar-1, Palghar-2, Karjat-6, Karjat-9, hybrid Sahyadri, Sahyadri-3 for fine seeded and late rice varieties Ratnagiri-2, Ratnagiri-3 for bold seeded, Karjat-2, Karjat-8,

Karjat-10, hybrid Sahyadri-5 for fine seeded, and Panvel-1, Panvel-2 and Panvel-3 for Kharlands categories are recommended by Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli for cultivation in Konkan region during Kharif.

- Groundnut:Groundnut crop shows maturity sign like 70-80% of the pods develop blackish streak inside the shell and the kernels are plump with original seed colour develop on the kernel, Uproot the plant when there is enough moisture in the soil during morning hours. As there is forecast for very light rain, strip off the pods from the plant and keep for drying in protective place.
- Animal husbandry:There is possibility of increase in temperature hence Provide clean, hygienic and plenty amount of drinking water to farm animals.To protect animals from heat, sprinkle cold water on animals during the afternoon, it will help to maintain the body temperature.To reduce the stress of heat in farm animals, provide roughages by mixing with solution of 1% gaggery and 0.5% salt separately.Vaccination against foot and mouth disease in farm animals under supervision of veterinary officers is advocated.
- Poultry:There is possibility of increase in temperature, hence in poultry shed, increase the water pot and provide adequate and clean water for drinking.

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

01-05-2021/(0830 to 0856) GMT
01-05-2021/(1400 to 1426) IST



273

940

IMD,DELHI

Figure: 1. Latest available satellite picture as on 01 May 2021 at 1426 Hrs (IST). (Source: IMD).

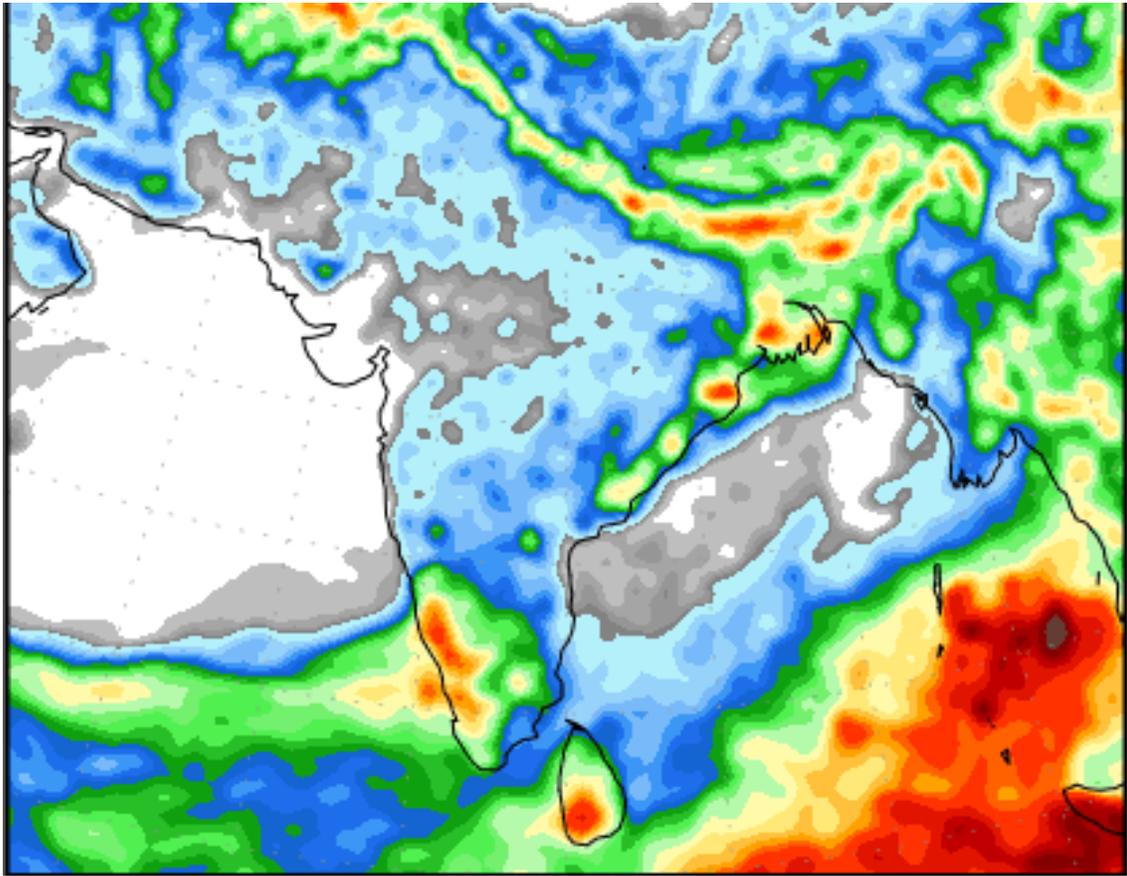


Figure:2. Precipitation forecast for 01 May to 09 May 2021 (Source: NOAA NCEP).

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