

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 06 May 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Under the influence of a Western Disturbances, scattered to fairly widespread rainfall/thundershower very likely over Western Himalayan Region and isolated to scattered rainfall/thunderstorms is likely over plains of northwest India during next 4-5 days. Isolated hailstorms are likely over Himachal Pradesh and Uttarakhand during next 24 hours. Isolated dust storm is also likely over Rajasthan on 06 & 07 May, 2021.
- An east-west trough runs from eastern parts of central India to northeast India across east India in lower levels. This east-west trough is very likely to persist during next 4-5 days. A trough in westerlies runs roughly along longitude 90°E to the north of latitude 18°N in middle & upper tropospheric levels.
- Under their influence, fairly widespread to widespread rainfall/thunderstorm activity is very likely over northeastern states and West Bengal & Sikkim; and isolated to scattered rain/thundershower likely over remaining parts of east India during next 4-5 days.
- Isolated heavy rainfall is also likely over Northeast India and Sub Himalayan West Bengal & Sikkim during 6 to 10 May; Gangetic west Bengal on 09 May; isolated very heavy falls also likely over Assam & Meghalaya on 9 & 10 May.
- Under the influence of a cyclonic circulation over north interior Karnataka and a north-south trough over south Peninsula at lower levels, light/moderate scattered to fairly widespread rain/thunderstorms is very likely over Kerala & Mahe, Lakshadweep and Karnataka; and isolated rain/thundershower likely over remaining parts of south Peninsular India during next 5 days. Isolated heavy rainfall is also likely over Kerala & Mahe and Coastal & South Interior Karnataka during next 24 hours.
- No 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 hours IST of yesterday to 0830 hrs IST of today): at most places over West Bengal & Sikkim, Arunachal Pradesh and Coastal Karnataka; at many places over Assam & Meghalaya, Andaman & Nicobar Islands and Interior Karnataka and ; at a few places over Odisha, Jammu, Kashmir, Ladakh, Gilgit, Baltistan, Muzaffarabad, Uttarakhand, Chhattisgarh, Bihar, Coastal Andhra Pradesh & Yanam and Kerala & Mahe and at isolated places over Himachal Pradesh, East Uttar Pradesh, East Madhya Pradesh, West Rajasthan, Vidarbha, Nagaland, Manipur, Mizoram & Tripura, Telangana, Konkan & Goa, Madhya Maharashtra , Rayalaseema and Tamilnadu, Puducherry & Karaikal.
- Hailstorm observed (from 0830 hours IST of yesterday to 0830 hrs IST of today) at isolated placed over Jammu, Kashmir, Ladakh, Gilgit, Baltistan, Muzaffarabad, Chhattisgarh, Jharkhand and Odisha. Duststorm observed at isolated places over West Rajasthan.
- Thunderstorm observed (from 0830 hrs IST yesterday to 0830 hrs IST of today): Assam & Meghalaya, West Rajasthan, South Interior Karnataka, Coastal Andhra Pradesh & Yanam, Coastal Karnataka, Kerala & Mahe, Telangana, Odisha, West Bengal & Sikkim, Jharkhand, Chhattisgarh, Madhya Maharashtra and West Rajasthan.
- Maximum Temperature Departures as on 05-05-2021: Maximum temperatures were above normal (1.6°C to 3.0°C) at a few places over Andaman & Nicobar Island, Gujarat State, Kerala & Mahe and Lakshadweep; at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, West Bengal & Sikkim. They were appreciably below normal (-3.1°C to -5.0°C) at many places over Himachal Pradesh, East Uttar Pradesh and Chhattisgarh; at a few places over Bihar and Telangana; at isolated places over West Madhya Pradesh, Odisha and Jharkhand below normal (-1.6°C to -3.0°C) at many places over Uttarakhand and North Interior Karnataka and at isolated places over Madhya Pradesh, Vidarbha, Rayalaseema, Madhya Maharashtra and Marathawada and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 43.5°C was reported at Khargone (West Madhya Pradesh).
- Minimum Temperature Departures as on 06-05-2021: Minimum temperatures are above normal (1.6°C to 3.0°C) at a few places over Vidarbha, Konkan & Goa, South Interior Karnataka and Tamilnadu, Puducherry & Karaikal. They are markedly below normal (-5.1°C and above) at isolated places over East Madhya Pradesh, East Rajasthan, Bihar, and Gujarat State; appreciably below normal (-3.1°C to -5.0°C) at many places over Gangetic West Bengal; at a few places over

Nagaland, Manipur, Mizoram & Tripura and at isolated places over Coastal Andhra Pradesh & Yanam; below normal (-1.6°C to -3.0°C) at many places over Assam & Meghalaya and Jharkhand; at a few places over Himachal Pradesh, East Uttar Pradesh and West Madhya Pradesh and at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan, Muzaffarabad, Odisha and Coastal Karnataka and near normal over rest parts of the country. Today, the lowest minimum temperature of 16.0°C is reported at Bulsar (Gujarat Region) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 06 May (Day 1): Thunderstorm with lightning, hail & gusty wind (speed reaching 30-40 kmph) very likely at isolated places over Himachal Pradesh, Uttarakhand, Bihar and Madhya Maharashtra; with lightning & gusty wind (speed reaching 40-50 kmph) at isolated places over Jharkhand, Gangetic West Bengal and Assam & Meghalaya; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over Jammu & Kashmir, Ladakh, GilgitBaltistan & Muzaffarabad, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Vidarbha, Chhattisgarh, Odisha, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Marathwada, Konkan & Goa, Telangana and Kerala & Mahe and with lightning at isolated places over Madhya Pradesh, Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam, Rayalaseema, 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 Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal & South Interior Karnataka and Kerala & Mahe.
- 07 May (Day 2): Thunderstorm with lightning, hail & gusty wind (speed reaching 30-40 kmph) very likely at isolated places over Uttarakhand, Madhya Maharashtra and Telangana; with lightning & gusty wind (speed reaching 40-50 kmph) at isolated places over Jharkhand ; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Gangetic West Bengal, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam and Kerala & Mahe and with lightning at isolated places over Andaman & Nicobar Islands, Rayalseema, 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 Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

- 08 May (Day 3): Thunderstorm with lightning & gusty wind (speed reaching 40-50 kmph) very likely at isolated places over Jharkhand, Gangetic West Bengal, and Odisha; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over Himachal Pradesh, East Uttar Pradesh, Madhya Pradesh, Bihar, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Konkan & Goa, Telangana and Kerala & Mahe and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttarakhand, Vidarbha, Chhattisgarh, Andaman & Nicobar Islands, Gujarat state, Marathwada, Coastal Andhra Pradesh & Yanam, Rayalaseema, Karnataka, Tamil Nadu, Puducherry & Karaikal and Lakshadweep. Heavy rainfall very likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- 09 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 East Uttar Pradesh, Jharkhand, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana and Kerala & Mahe and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttarakhand, Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Gujarat state, Madhya Maharashtra, Marathwada, Konkan & Goa, Rayalaseema, Karnataka, Tamil Nadu, Puducherry & Karaikal and Lakshadweep. Heavy to very heavy rainfall likely at isolated places over Assam & Meghalaya and heavy rainfall likely at isolated places over West Bengal & Sikkim, Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura.
- 10 May (Day 5): 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 Jharkhand, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana and Kerala & Mahe and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttarakhand, East Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan

West Bengal & Sikkim, Odisha, Arunachal Pradesh, Madhya Maharashtra, Marathwada, Rayalaseema, Karnataka, Tamil Nadu, Puducherry & Karaikal and Lakshadweep. Thunderstorm/Duststorm (speed reaching 40-50 kmph) very likely at isolated places over West Rajasthan. Heavy to very heavy rainfall likely at isolated places over Assam & Meghalaya and heavy rainfall likely at isolated places over Sub-Himalayan West Bengal & Sikkim, , Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura.

- The weather outlook for seven days i.e., 06 May to 14 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)

Gujarat

Weather condition:

The actual maximum temperature was 0.3 °C lower and the actual minimum temperature was 1.0 °C higher as compare to their normal. Total BSS was 66.7 hrs. with an average of 9.5 hrs. The daily average evaporation and wind speed was 8.5 mm and 3.5 km/hr respectively. The daily average RH during morning and afternoon was 73.3 % and 38.3 % respectively.

Contingency measure:

- Weeding, interculturing and irrigation should be done in summer crops like pearl millet, green gram, cow pea, okra etc. if required.
- Summer greengram: For effective control of whitefly infestation and other sucking pest infestation observed spray neem oil @ 50ml/15 liter or Imidachlopride 17.8 SL @ 5ml/15 liter or Acetamiprid 20% SP @ 3 g/15 liter. Use 10 pheromone trap per acre for management of sucking pest.
- Brinjal: Growth: Fruit and Shoot borer: If infestation found install 40 pheromone trap. Change lure at 21 day interval. And spray Diclorovos 76 EC 7 ml or Deltamethrin 1% + Triazophos 36% EC 10 ml in 10 lit water. Uproot and burn little leaf diseases infected brinjal plant and spray any systemic insecticide.
- Chilli : For control of thrips, spray Profenofos 20 ml or neem seed oil 50 ml in 10 liter water. In case of severe attack, spray Spinosad or Spinetoram 3 ml per 10 liter of water.
- Banana : Apply irrigation at an interval of 4 to 5 days as per requirement of crop in summer season. Spraying with zinc sulphate 0.5% or ferrous sulphate 0.2% in banana crop at flowering stage for improving quality and yield.

- Mango: Reduction of high temperature effect of mango fruits can be managed by irrigating the orchard. Install nauroji fruit fly trap @ 10 trap per hectare in mango orchard nearby to sapota orchard.
- Cattle: Keep animal shed hygienic and clean to avoid flies and mosquitoes. Due to starting of summer season, it is ensure that animals get drinkable water round the clock, if not possible than after give adlib water atleast 4 - 5 time in a day. Provide 6-8 kg good quality dry roughage with 15-20 kg green fodder to the animals. FMD vaccination should be done.

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

06-05-2021/(0830 to 0856) GMT
06-05-2021/(1400 to 1426) IST

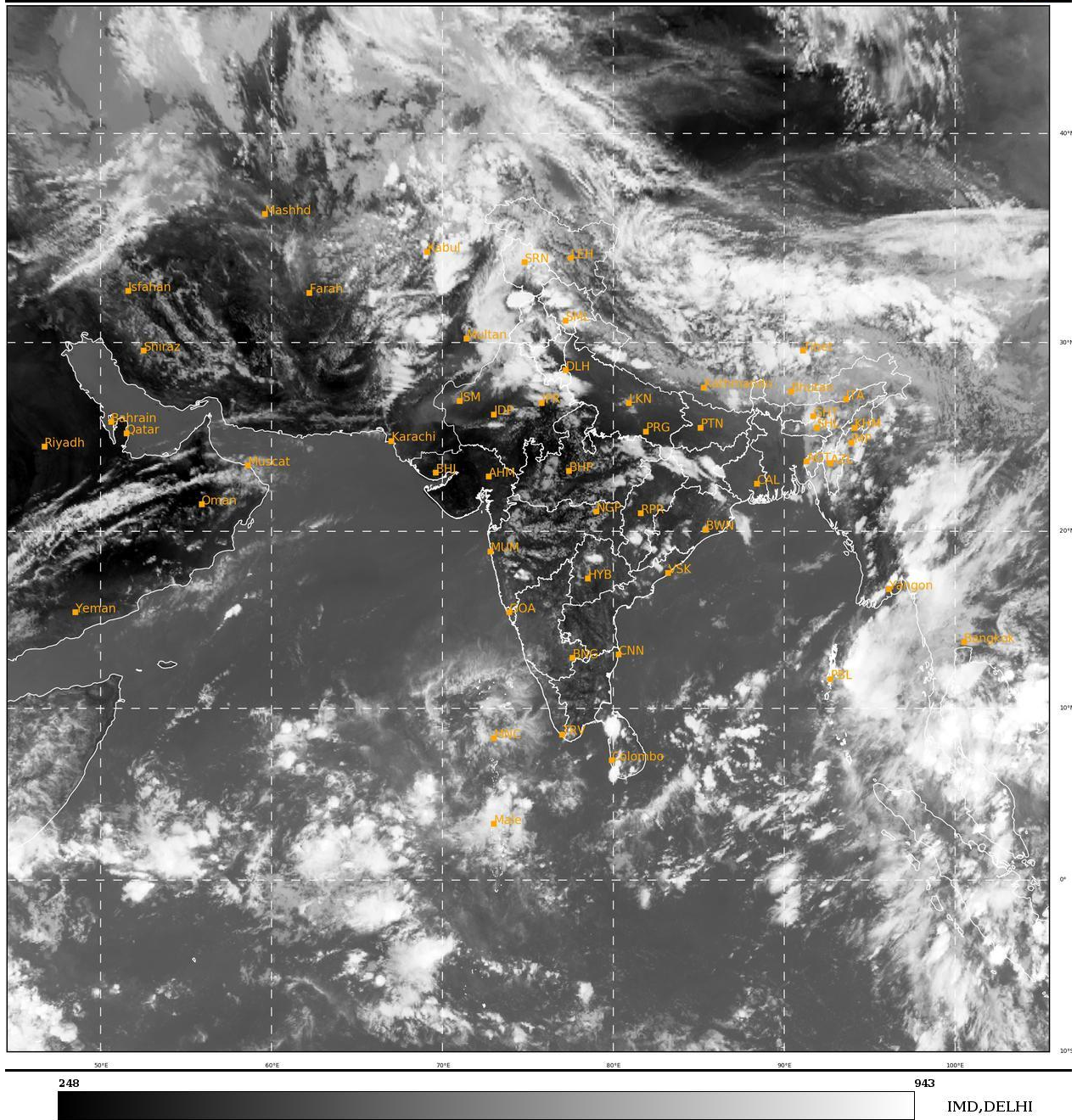


Figure: 1. Latest available satellite picture as on 06 May 2021 at 1426 Hrs (IST). (Source: IMD).

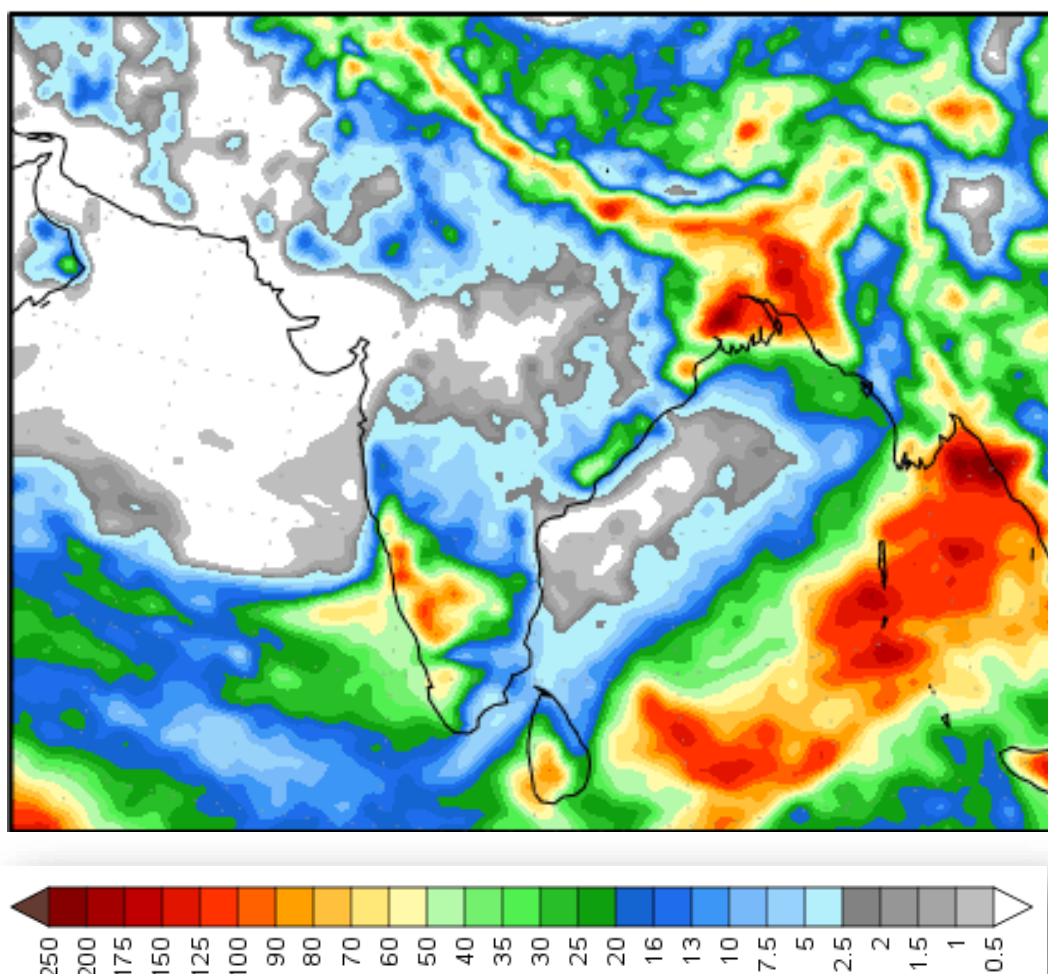


Figure:2. Precipitation forecast for 06 May to 14 May 2021 (Source: NOAA NCEP).

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