

All India Coordinated Research Project on Agrometeorology

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Daily Crop Weather Information as on 07 April 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Western Disturbance now seen as a cyclonic circulation over Jammu & Kashmir and neighbourhood at 3.1 km above mean sea level with a trough aloft in mid & upper tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along longitude 72°E to the north of latitude 32°N and an induced cyclonic circulation lies over West Uttar Pradesh & neighbourhood in lower tropospheric levels. Under the influence of these systems, scattered to fairly widespread rainfall/snowfall with thunderstorm, lightning/gusty winds (speed reaching 30-40 kmph) very likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh and Uttarkhand during next 24 hours and decrease thereafter.
- Heat wave conditions very likely in isolated pockets over East Madhya Pradesh and Jharkhand during next 48 hours and over West Madhya Pradesh, east Vidarbha, South Uttar Pradesh, East Rajasthan and Bihar during next 24 hours.
- A trough in westerlies runs roughly along longitude 85°E to the north of latitude 22°N at 2.1 km above mean sea level and a cyclonic circulation lies over Jharkhand & adjoining North Chhattisgarh in lower tropospheric level. It is likely to move eastwards during next 24 hours. These systems supported by moisture incursion from Bay of Bengal in lower tropospheric levels likely to cause:
 - i) Scattered to widespread rainfall with thunderstorm, lightning & gusty winds (speed reaching 30-40 kmph) over North East India during 08th -11th April. Thunderstorm, lightning & squall(speed reaching 50-60 kmph) also likely over Assam & Meghalaya on 08th & 09th and over Nagaland, Manipur, Mizoram & Tripura on 09th April and isolated heavy rainfall likely over Arunachal Pradesh on 09th & 10th April, 2021.
 - ii) Isolated to scattered rainfall with thunderstorm, lightning & gusty winds (speed reaching 30-40 kmph) over East India & adjoining Central India during 08th -11th April. Isolated hailstorm also likely over Chhattisgarh on 10th April, 2021.
- 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 Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffrabad, Himachal Pradesh and Punjab and at a few places over Uttarakhand and at isolated places over Haryana, Chandigarh & Delhi, West Uttar Pradesh, Assam & Meghalaya, Konkan & Goa, south Madhya Maharashtra, Telangana, Tamilnadu, Puduchery & Karaikal, Kerala & Mahe and Andaman & Nicobar Islands.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today) in isolated pockets over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffrabad, Kerala north Interior Karnataka, Punjab, Haryana, Chandigarh, Himachal Pradesh and Uttarakhand.
- Heat Wave Conditions observed in some pockets over East Rajasthan and in isolated pockets over northwest Rajasthan, South Uttar Pradesh, Vidarbha and north Madhya Pradesh.
- Maximum Temperature Departures as on 06-04-2021: Maximum temperatures were markedly above normal (5.1°C or more) at isolated places over Assam & Meghalaya and Arunachal Pradesh; appreciably above normal (3.1°C to 5.0°C) at many places over East Rajasthan, Uttarakhand, East Uttar Pradesh, Jharkhand and East Madhya Pradesh; at a few places over West Rajasthan and West Madhya Pradesh; at isolated places over Saurashtra & Kutch, West Uttar Pradesh and Tamilnadu; above normal (1.6°C to 3.0°C) at most places over Haryana, Chandigarh & Delhi and Vidarbha; at many places over Gujarat region, Konkan & Goa, Sub-Himalayan West Bengal & Sikkim and Coastal Karnataka; at a few places over Madhya Maharashtra, Marathwada and North Interior Karnataka; at isolated places over Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura and Kerala & Mahe. They were markedly below normal (-5.1°C or less) at isolated places over Himachal Pradesh; appreciably below normal (-3.1°C to -5.0°C) at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffrabad and Andaman & Nicobar Islands and below normal (-1.6°C to -3.0°C) at isolated places over Coastal Andhra Pradesh & Yanam and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 44.0°C was reported at Banda (East Uttar Pradesh) over the country.
- Minimum Temperature Departures as on 07-04-2021: Minimum temperatures are markedly above normal (5.1°C or more) at isolated places over East Uttar Pradesh; appreciably above normal (3.1°C to 5.0°C) at most places over Uttarakhand; at a few places over West Uttar Pradesh and Madhya Maharashtra; at

isolated places over West Rajasthan and Madhya Pradesh; above normal (1.6°C to 3.0°C) at most places over North Interior Karnataka; at many places over Haryana, Chandigarh & Delhi, Chhattisgarh, Jharkhand and Coastal Karnataka; at a few places over Odisha; at isolated places over Himachal Pradesh, East Rajasthan, Gujarat state, Bihar, West Bengal & Sikkim. They are appreciably below normal (-3.1°C to -5.0°C) at isolated places over Telangana; below normal (-1.6°C to -3.0°C) at a few places over Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad and at isolated places over Coastal Andhra Pradesh & Yanam and near normal over rest parts of the country. Today, the lowest minimum temperature of 14.6°C reported at Amritsar (Punjab) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 07 April (Day 1): Thunderstorm with lightning & gusty winds (speed reaching 40-50 kmph) very likely at isolated places over Uttarakhand; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Gangetic West Bengal, Assam & Meghalaya and Kerala & Mahe and with lightning at isolated places over Jammu & Kashmir, Ladakh, GilgitBaltistan & Muzaffarabad, Himachal Pradesh, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Nagaland, Manipur, Mizoram & Tripura, Arunachal Pradesh, Coastal Andhra Pradesh & Yanam, Telangana and Lakshadweep. Heat Wave Conditions very likely in isolated pockets over Madhya Pradesh, east Vidarbha, south Uttar Pradesh, East Rajasthan, Bihar and Jharkhand. Squally weather (wind speed reaching 40-50 kmph) very likely over south Andaman Sea.
- 08 April (Day 2): Thunderstorm with lightning, hail & squall (speed reaching 50-60 kmph) very likely at isolated places over Gangetic West Bengal;with lightning & squall (speed reaching 50-60 kmph) at isolated places over Assam & Meghalaya; with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places over Nagaland, Manipur, Mizoram & Tripura; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Jharkhand, Sub-Himalayan West Bengal & Sikkim and Kerala & Mahe and with lightning over Chhattisgarh, Odisha and Arunachal Pradesh. Heat Wave Conditions very likely in isolated pockets over East Madhya Pradesh and Jharkhand.
- 09 April (Day 3): Thunderstorm with lightning, hail & squall (speed reaching 50-60 kmph) very likely at isolated places over Gangetic West Bengal; with lightning & squall (speed reaching 50-60 kmph) at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; with lightning, hail & gusty winds (speed reaching 40-50 kmph) at isolated places over Sub-Himalayan West Bengal

& Sikkim; with lightning, hail & gusty winds (speed reaching 30-40 kmph) at isolated places over Odisha; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Chhattisgarh, Bihar, Jharkhand, Arunachal Pradesh, Coastal Andhra Pradesh & Yanam and Kerala & Mahe and with lightning over East Madhya Pradesh, Vidarbha, south Madhya Maharashtra, Tamil Nadu, Puducherry & Karaikal and Lakshadweep. Heavy Rainfall very likely at isolated places over Arunachal Pradesh.

- 10 April (Day 4): Thunderstorm with lightning, hail & gusty winds (speed reaching 30-40 kmph) likely at isolated places over Chhattisgarh; with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places over Assam & Meghalaya; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Jharkhand, Gangetic West Bengal, Odisha, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana and Kerala & Mahe and with lightning over East Madhya Pradesh, Vidarbha, Konkan & Goa, south Madhya Maharashtra, Marathawada and Tamilnadu, Puducherry & Karaikal. Heavy Rainfall likely at places over Arunachal Pradesh.
- 11 April (Day 5): Thunderstorm with lightning & gusty winds (speed reaching 40-50 kmph) likely at isolated places over Assam & Meghalaya; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Nagaland, Manipur, Mizoram & Tripura, Arunachal Pradesh, Chhattisgarh, Telangana and Kerala & Mahe and with lightning over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, East Madhya Pradesh, Vidarbha, Konkan & Goa, south Madhya Maharashtra, Marathawada, Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal. Heat Wave Conditions likely in isolated pockets over Uttar Pradesh and Rajasthan
- The weather outlook for seven days i.e., 07 Apr to 15 April 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)

Jammu

Weather condition:

Mainly clear weather prevailed with no rainfall. The maximum temperature remained above normal by 2-3 °C and ranged from 29.0 to 33.0°C, however minimum temperature mainly remained variable and was recorded in the range of 8.2 to 20.4°C. The morning and afternoon relative humidity remained in the range of 54 to 89 % and 25 to 50 %, respectively.

respectively. The evaporation and sunshine remained in the range of 4.4 to 6.2 mm/day and 5.5 to 9.1 hrs, respectively were observed during this period.

Contingency measure:

- Wheat: Very late/ Late / Normal Sown Hard dough/ milking, Anthesis/ Ear head Due to increase in temperature irrigate the late sown crop. To control loose smut, rogue out affected plants and destroy by burning or deep burying under soil to avoid further dispersal.
- Rabi pulses: Chickpea Early/late sown Pod formation To control gram pod borer, apply indaxocarb @ 1ml/lit of water or fluendiamide @ 0.3gm/lit of water.
- Oilseeds: Mustard Early/late sown Maturity Harvesting of mature crop is recommended, if 75-80 percent of the pods (Siliqua) turn brown in colour. The bundles of the harvested plants should be kept in stack for 3-4 days with head upwards before threshing. Fodder Berseem Vegetative Give irrigation.If seed is to be taken from the crop, stop fodder cutting for quality production of barseem seed.
- Vegetables: Tomato Cucurbits Okra Vegetative Vegetative Sowing Proper staking of plants is recommended. Dusting of ash with cypermethrin@1ml/kg on the plants during morning time to avoid red pumpkin beetle attack in cucurbits especially cucumber and bottle gourd. Farmers are advised to go for sowing of okra varieties like Jammu okra 05, arka anamika @ kg/kanal is recommended.
- Floriculture: Marigold Gladiolus Seed harvesting Flowering Seed harvesting of winter season crop and transplanting of seeding for summer season crop is recommended Weeding & hoeing is recommended along with fungicidal spray of Bavistin @ 0.2% for the control of fusarium wilt.
- Button mushroom: Oyster mushroom Button Mushroom Spawn run Fruiting Spawn run condition bags are to kept at 23-26°C Open the bags after complete Spawn run(15-20 days) maintain temperature to 22-28°C and humidity to 85-90%. Temperature to be maintained for Button Mushroom produced in upper reaches of Jammu region is 16-18°C and humidity to be maintained at 85-90%.
- Horticulture: Mango/ Citrus/Guava Young/ Bearing Treat mango basin with 2% methyl parathion dust to check mealy bug.
- Sericulture: Bivoltine cocoon crop Disinfection of rearing halls/ appliances Farmers may go for second disinfection of rearing appliances with either 2% formalin or 5% bleaching powder solution. After disinfection, dry the appliances in sun.
- Apiculture: Shift the bee colonies near mustard field. Inspect colony at regular intervals. Poultry Avoid hurdling of chicks. Proper hygiene should be

maintained. Give vaccination against infectious bursal dermatitis IBD & Gumbroo at 7th & 14th day after birth. Adequate clean drinking water should be available all the time. Provide starter feed for first 14 days and provide finisher feed from 15th day till sale.

- Fisheries: (Carp Farming) advanced fingerlings /yearlings In case of appearance of algal bloom, farmers should suspend addition of manure/fertilizers feed in the pond for some days. Add supplementary feed (rice/wheat bran & mustard oil cake and rice/wheat bran) @ 3% of total fish biomass on daily basis.
- Live stock: Dairy animals/ Sheep & Goat Calcium supplement is recommended in the diet of dairy animals and heifers especially when fed rice straw these days to prevent calcium deficiency and intestinal blockage. Vaccination against Sheep and Goat pox is recommended in Sheeps and goats. Black Quarter vaccination must be carried among heifers above 4 month age. *Cover face with thick cloth or wear mask and maintain social distance while doing agricultural operations in field

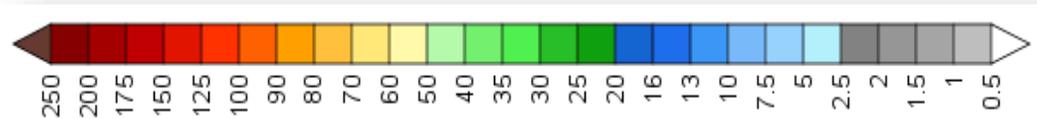
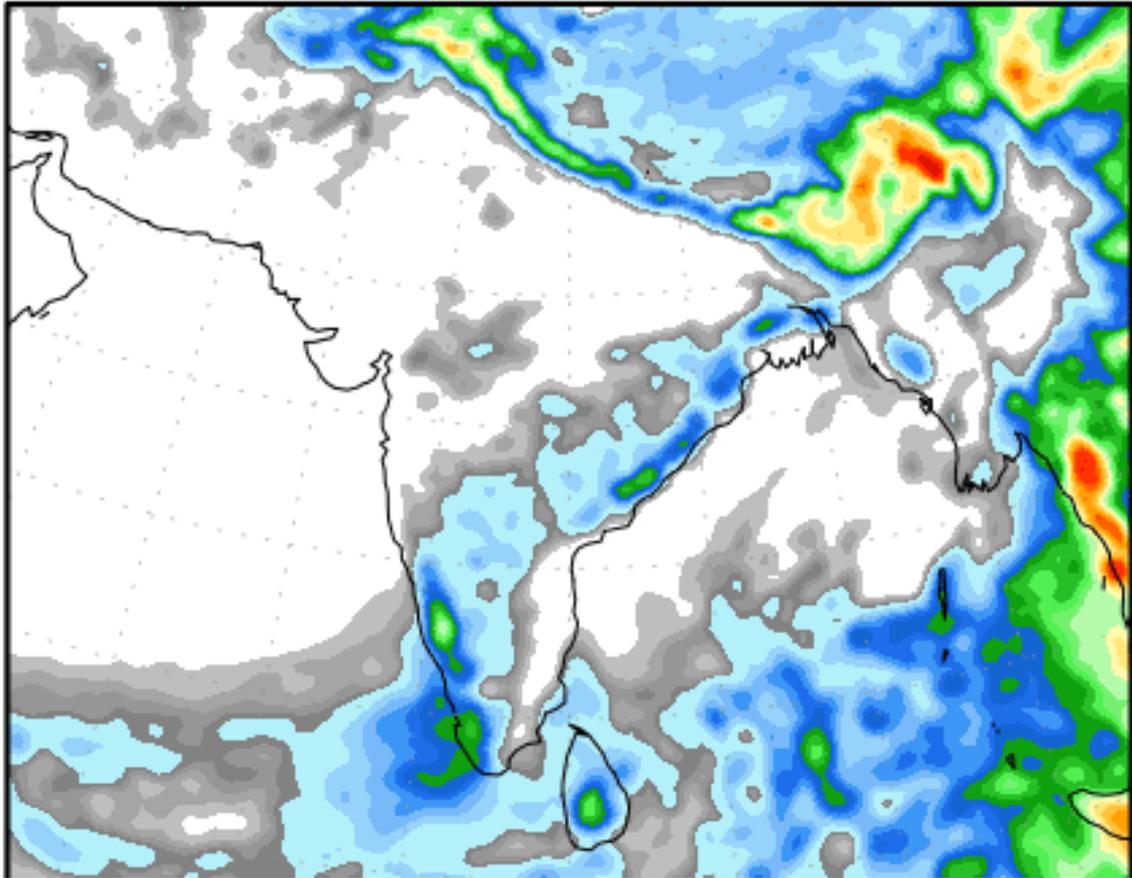


Figure:2. Precipitation forecast for 07 Apr to 15 Apr 2021 (Source: NOAA NCEP).

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