

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 08 April 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A cyclonic circulation lies over East Uttar Pradesh & adjoining Bihar in lower levels and a trough runs from this cyclonic circulation to east Vidarbha across East Madhya Pradesh and Chattisgarh at 0.9 km above mean sea level. This trough is likely to shift southwestwards during next 3-4 days. This system supported by moisture incursion from Bay of Bengal in lower tropospheric levels is very likely to cause:
 - i) Isolated to scattered rainfall with thunderstorm, lightning & gusty winds (30-40 kmph) very likely over Odisha, West Bengal & Sikkim and Jharkhand during next 3-4 days. Isolated thundersquall (50-60 kmph) with hail very likely over Gangetic West Bengal and Odisha during 09th-11th April.
 - ii) Isolated rainfall with thunderstorm, lightning & gusty winds (30-40 kmph) very likely over Madhya Maharashtra, Marathwada, Vidarbha and Chhattisgarh during next 5 days with maximum activity over Maharashtra on 11th & 12th April. Isolated hailstorm very likely over Vidarbha and Chhattisgarh on 10th & 11th April.
- Under the influence of lower level wind convergence over Arunachal Pradesh & neighbourhood:
 - i) Fairly widespread to widespread rainfall with thunderstorm, lightning & gusty winds (30-40 kmph) very likely over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 08th-12th April. Thundersquall activity very likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 08th & 09th April.
 - ii) Isolated heavy rainfall also very likely over south Assam & Meghalaya on 08th and Arunachal Pradesh on 09th & 10th April.
- A fresh Western Disturbance is likely to affect Western Himalayan Region from the night of 10th April. Under its influence, isolated to scattered rainfall/snowfall with thunderstorm & lightning likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh and Uttarkhand during 11th- 12th 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 many places over Lakshadweep; at a few places over Arunachal Pradesh, Assam & Meghalaya and Kerala & Mahe and at isolated places over Andaman & Nicobar Islands, Nagaland, Manipur, Mizoram & Tripura, West Bengal & Sikkim, Odisha, Uttarakhand, Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffrabad, Himachal Pradesh, Coastal Andhra Pradesh & Yanam and Telangana.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Uttarakhand, Assam & Meghalaya and Kerala & Mahe.
- Maximum Temperature Departures as on 07-04-2021: Maximum temperatures were markedly above normal (5.1°C or more) at many places over Arunachal Pradesh; appreciably above normal (3.1°C to 5.0°C) at most places over Jharkhand and Assam & Meghalaya; at many places over Madhya Pradesh; above normal (1.6°C to 3.0°C) at most places over West Uttar Pradesh and Vidarbha; at many places over Uttarakhand, Haryana, Chandigarh & Delhi, East Uttar Pradesh and Coastal Karnataka; at a few places over Himachal Pradesh, Saurashtra & Kutch and Madhya Maharashtra; at isolated places over Odisha, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and East Rajasthan. They were appreciably below normal (-3.1°C to -5.0°C) at a few places over Andaman & Nicobar Islands and below normal (-1.6°C to -3.0°C) at isolated places over Gangetic West Bengal, West Rajasthan and Coastal Andhra Pradesh & Yanam and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 43.2°C was reported at Khargone (West Madhya Pradesh) over the country.
- Minimum Temperature Departures as on 08-04-2021: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at many places over Jharkhand and Marathwada; at a few places over East Madhya Pradesh, East Rajasthan, Madhya Maharashtra and Coastal Karnataka; at isolated places over Uttar Pradesh, Bihar, West Madhya Pradesh, Vidarbha and Sub-Himalayan West Bengal & Sikkim; above normal (1.6°C to 3.0°C) at most places over Chhattisgarh; at many places over Odisha, Gangetic West Bengal and North Interior Karnataka; at a few places over Assam & Meghalaya and Saurashtra & Kutch; at isolated places over Himachal Pradesh, West Rajasthan, Gujarat Region, Konkan & Goa and Kerala &

Mahe. They are below normal (-1.6°C to -3.0°C) at a few places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Telangana, Tamil Nadu, Puducherry & Karaikal and Lakshadweep; at isolated places over Haryana, Chandigarh & Delhi, Rayalaseema and Coastal Andhra Pradesh & Yanam and near normal over rest parts of the country. Today, the lowest minimum temperature of 12.8°C is reported at Amritsar (Punjab) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 08 April (Day 1): Thunderstorm with lightning & squall (speed reaching 50-60 kmph) very likely at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Jharkhand, West Bengal & Sikkim, Lakshadweep and Kerala & Mahe and with lightning at isolated places over Chhattisgarh, Odisha, Arunachal Pradesh, Coastal Andhra Pradesh & Yanam, Karnataka and Telangana. Heavy rainfall very likely at isolated places over south Assam & Meghalaya. Heat Wave Conditions very likely in isolated pockets over northwest Jharkhand.
- 09 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, 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 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, Arunachal Pradesh and Kerala & Mahe and with lightning over Vidarbha, Chhattisgarh, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Tamilnadu, Puducherry & Karaikal and Lakshadweep. Heavy Rainfall very likely at isolated places over Arunachal Pradesh.
- 10 April (Day 3): Thunderstorm with lightning, hail & squall (speed reaching 50-60 kmph) very likely at isolated places over Gangetic West Bengal; with lightning, hail & gusty winds (speed reaching 30-40 kmph) at isolated places over Vidarbha and 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, Arunachal Pradesh, Coastal Andhra Pradesh & Yanam and Kerala & Mahe and with lightning over

Nagaland, Manipur, Mizoram & Tripura, East Madhya Pradesh, Odisha, Madhya Maharashtra, Marathwada and Tamilnadu, Puducherry & Karaikal. Heavy Rainfall very likely at places over Arunachal Pradesh.

- 11 April (Day 4): Thunderstorm with lightning, hail & gusty winds (speed reaching 30-40 kmph) likely at isolated places over Vidarbha, Chhattisgarh and Odisha; 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 Gangetic West Bengal, Arunachal Pradesh, Madhya Maharashtra, Marathawada, Coastal Andhra Pradesh & Yanam and Kerala & Mahe and with lightning over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, East Madhya Pradesh, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Telangana, Tamilnadu, Puducherry & Karaikal and Lakshadweep.
- 12 April (Day 5): Thunderstorm with lightning & gusty winds (speed reaching 40-50 kmph) likely at isolated places over Assam & Meghalaya and Kerala & Mahe; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Gangetic West Bengal, Madhya Maharashtra and Marathwada and with lightning over Jammu & Kashmir, Ladakh, GilgitBaltistan & Muzaffarabad, Himachal Pradesh, Vidarbha, Chhattisgarh, Odisha, Nagaland, Manipur, Mizoram & Tripura, Arunachal Pradesh, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Karnataka, Tamil Nadu, Puducherry & Karaikal and Lakshadweep. Heavy rainfall likely at isolated places over Kerala & Mahe.
- The weather outlook for seven days i.e., 08 Apr to 16 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)

Madhya Pradesh

Weather condition:

High Tmax.: 43°C at Khargone district - Low Tmin.: 13°C at Umaria district - Rainfall: NIL. - State is experiencing heat wave conditions followed by few places with lightening and thunderstorm conditions - Day Temp.: 2°C above normal over the state - Night temp.: Normal over the state

Contingency measure:

- General Advice General advice: In the coming days, there is a forecast of temperature rise along no clouds in the sky in the eastern MP region. Keep the

grain stored in a safe place by deepening the dry pulse and seed and oil seed crops.

- Moong : Advanced varieties of Summer Mugs, P.D. M. 139 and Seeds seeds of Agricultural University and arrangement of seeds from the permissible place. 20 kg of seed Sing At the rate of per hectare and the queue distance from the queue is 30 cm. But do the buoys. 20 kg of fertilizers Sing Nitrogen, 60kg Sing Phosphorus, 20k Sing At the rate of potassium per hectare.
- Wheat : Cut the wheat on maturity. Store it dry and dry.
- Chickpea : Cut the gram on maturity. Store it dry and dry.
- Vegetables : Prepare the farm for all summer vegetables. And obtain high quality seeds from the places of trust. Arrange to prepare the seedlings for early summer harvesting. If the field is not empty for sowing the seeds, prepare the seedlings in a safe place and plant the seedlings once the farm is open. Sown watermelon, melon, cucumber cucumber gourd and pumpkin etc. Prepare the farm for all summer vegetables. And obtain high quality seeds from the places of trust. Sprinkle ladyfinger seeds very soon.
- Fruits : In the case of proper arrangement of irrigation, new fruit can be planted. In the new fruit gardens, sesame and cardigan vegetables are sown in the form of inland crop. Mango is likely to cause rash sucking insect and diarrhea. Take the treatment techniques from the nearest Krishi Vigyan Kendra. Irrigation in mango, lemon and pomegranate etc. in 3 to 4 days intervals.
- Animal Husbandry & Poultry: Vaccinated the cattle against foot and mouth disease. Sore throats and acne vaccine in goats. Irrigate early planted Barseem crop after each cutting. Quickly sow maize and barley for green fodder.

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

08-04-2021/(0800 to 0826) GMT
08-04-2021/(1330 to 1356) IST

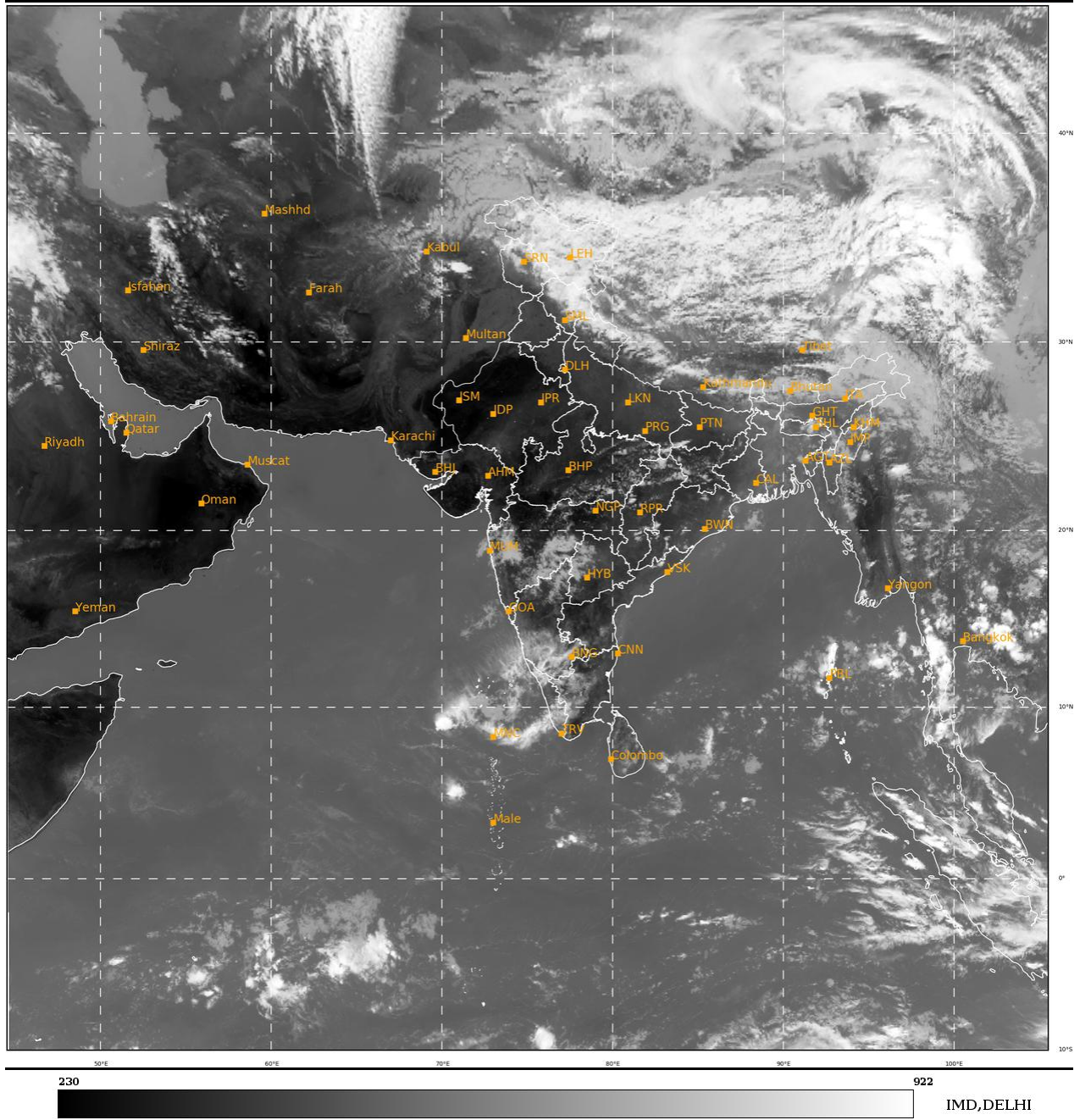


Figure: 1. Latest available satellite picture as on 08 April 2021 at 1356 Hrs (IST). (Source: IMD).

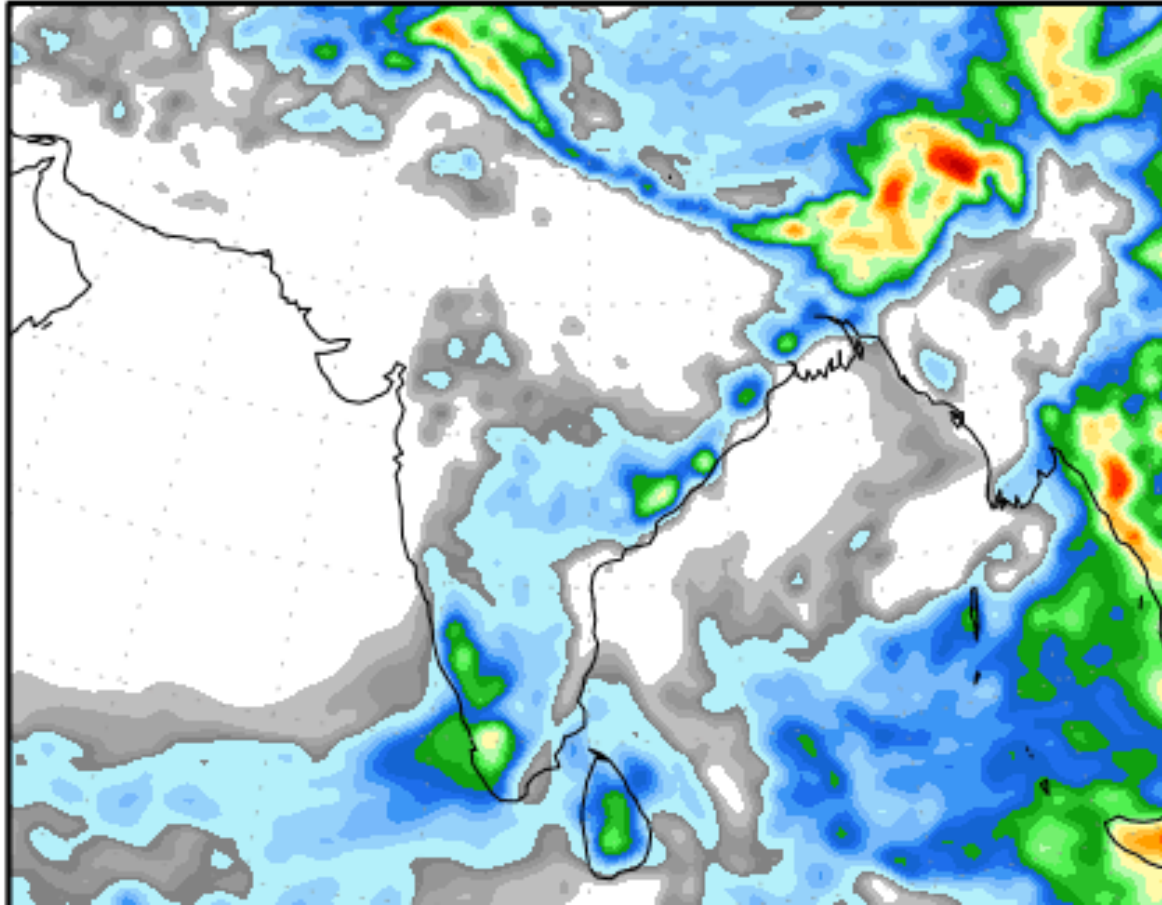


Figure:2. Precipitation forecast for 08 Apr to 16 Apr 2021 (Source: NOAA NCEP).

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