

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 04 March 2021

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Significant Weather Features (IMD)

- A fresh Western Disturbance is very likely to affect Western Himalayan Region (Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh and Uttarakhand) from the night of 05th March and adjoining plains of Northwest India from the night of 06th March. Under its influence:
 - (i) Scattered to widespread rainfall/snowfall very likely over Western Himalayan Region during 06th-08th March with peak intensity on 07th March.
 - (ii) Isolated heavy rainfall/snowfall very likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh and Uttarakhand on 07th March.
 - (iii) Thunderstorm with lightning & hail at isolated places very likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, and Himachal Pradesh on 06 & 07th March and over Uttarakhand during 06-08th March.
 - (iv) Isolated to scattered light rain/drizzle very likely over Punjab on 06th & 07th and isolated light rain/drizzle over north Haryana, Chandigarh and adjoining West Uttar Pradesh on 07th March. Isolated thunderstorm with lightning very likely over Punjab, north Haryana & Chandigarh and adjoining West Uttar Pradesh on 07th March.
- Scattered to widespread rainfall with isolated thunderstorm/lightning very likely over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during next 4-5 days. Isolated heavy rainfall very likely over Arunachal Pradesh on 05th March and thundersquall (wind speed reaching 50-60 gusting to 70 kmph) & hail also very likely over Assam & Meghalaya on 05th March, 2021.
- Maximum temperatures are above normal by 3-5 over most parts of Western Himalayan Region; by 2-4 over most parts of northwest India and some parts of Central, East and West India. However no heat wave conditions very likely over the country during next 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 hours IST of today): at a few places over Arunachal Pradesh and at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- Maximum Temperature Departures as on 03-03-2021: Maximum temperatures were markedly above normal (5.1°C or more) at many places over Himachal Pradesh; at a few places over West Rajasthan; at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; appreciably above normal (3.1°C to 5.0°C) at many places over Uttarakhand; at a few places over Haryana, Chandigarh & Delhi, Gangetic West Bengal, Konkan & Goa and south interior Karnataka; at isolated places over Assam & Meghalaya; above normal (1.6°C to 3.0°C) at many places over Punjab, East Rajasthan, Madhya Pradesh, Odisha, Jharkhand, Vidarbha, Coastal Andhra Pradesh and Gujarat state; at a few places over West Uttar Pradesh, Sub-Himalayan West Bengal, Madhya Maharashtra, Marathwada and Telangana; at isolated place over Bihar, East Uttar Pradesh and Rayalaseema. They were below normal (-1.6°C to -3.0°C) at a few places over Andaman & Nicobar islands; at isolated places over Tamilnadu, Puducherry & Karaikal and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 39.4°C was reported at Kothagudem (Telangana) over the country.
- Minimum Temperature Departures as on 04-03-2021: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at a few places over West Rajasthan and Andaman & Nicobar Islands; above normal (1.6°C to 3.0°C) at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Sub-Himalayan West Bengal, Madhya Maharashtra and Saurashtra & Kutch and at isolated places over Assam & Meghalaya, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh and Madhya Pradesh. They are below normal (-1.6°C to -3.0°C) at many places over East Rajasthan and South Interior Karnataka; at a few places over Gujarat Region, Vidarbha, Rayalaseema and Kerala & Mahe and at isolated places over East Uttar Pradesh, Odisha, Jharkhand, Gangetic West Bengal, Marathawada, Coastal Andhra Pradesh, Telangana and Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country. Today, the lowest minimum temperature of 9.6°C reported at Bhilwara (East Rajasthan) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 04 March (Day 1): Thunderstorm with lightning at isolated places very likely over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- 05 March (Day 2): Thunderstorm with lightning, hail & squall (wind speed reaching 50-60 gusting to 70 kmph) at isolated places very likely over Assam & Meghalaya and with lightning at isolated places over Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura. Heavy rainfall at isolated places very likely over Arunachal Pradesh.
- 06 March (Day 3): Thunderstorm with lightning & hail at isolated places likely over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh and Uttarakhand and with lightning at isolated places over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- 07 March (Day 4): Thunderstorm with lightning & hail at isolated places likely over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh and Uttarakhand and with lightning at isolated places over Punjab, north Haryana & Chandigarh, West Uttar Pradesh, Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura. Heavy rainfall/snowfall at isolated places likely over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh and Uttarakhand.
- 08 March (Day 5): Thunderstorm with lightning & hail at isolated places likely over Uttarakhand.
- The weather outlook for seven days i.e., 04 Mar to 12 March 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)

Assam

Weather condition:

Weather during the last week was partially clear. Daily average maximum temperature was 26.5°C which was 1.7 above normal and the average daily minimum temperature was 15.6°C which was 1.5 above normal for the week. Total BSSH was 14.7 hrs with an average of 2.5 hrs. The daily average evaporation rate was 2.1 mm/day and the average daily wind speed during the week 2.1 kmph. Daily average RH during morning and afternoon hour was 95.1% and 63.2% respectively.

Contingency measure:

- Boro rice (Vegetative stage): Farmers can go for top dressing the boro rice crop with 3 kg urea per bigha. Taking advantage of the predicted fair weather condition farmers can continue spraying of pesticide like Flubendiamide 39.35 SC (@ 1.25 ml per 10 lit of water) against moderate infestation of stem borer in the crop. Generally, about 50-60 lit water is required for spraying in one bigha area of land. Alternatively, farmers can go for dusting of Chlorantraniliprole 0.4G (@ 1.5 kg per bigha) to control the pest.
- Potato (Maturity): Farmers may start harvesting of matured potato crop. While harvesting with khurpi/spade, care should be taken not to injure the potato tuber.
- Summer Green gram/ Black gram (Land preparation): Continue land preparation for cultivation of green gram and black gram. To obtain higher yield, select recommended varieties like K 851, Pratap (SG-1) etc. for green gram and Pant U 19, SBC 40 etc. for black gram cultivation.
- Coconut (Sowing): Nuts harvested during November can be sown in nursery bed for raising seedling. Nuts should be placed horizontally with widest of the three segments upward which helps in germination and healthy growth of seedlings. In 1m wide nursery beds, the nuts should be placed at a spacing of 30cm x 30cm.
- Rabi vegetables (Various): Vegetable crops like cabbage, cauliflower and broccoli should be regularly monitored as crop may be attacked by caterpillars and leaf eaters. If moderate infestation is observed then, Chlorantraniliprole 18.5SC (@ 1ml per 3 lit of water) must be sprayed under fair weather condition.
- Poultry (Various): Regularly inspect the droppings of the poultry bird for any disease symptoms. Moreover, diseased and dead birds should be immediately removed.
- Fishery: Apply following chemicals to protect the fish population against various bacterial diseases prevalent in winter season - Potash @ 4-5 mg/lit of water.

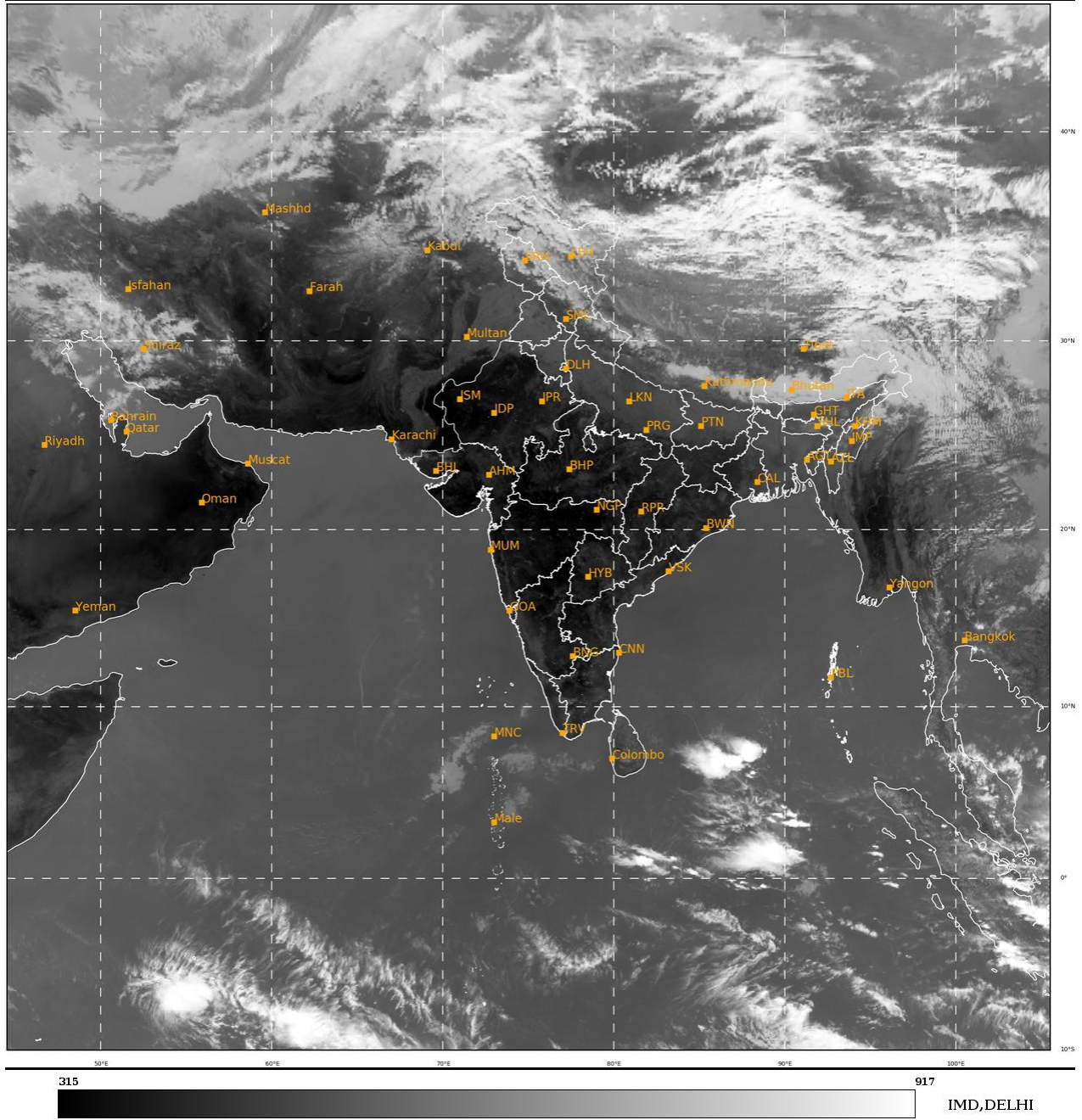


Figure: 1. Latest available satellite picture as on 04 March 2021 at 1357 Hrs (IST). (Source: IMD).

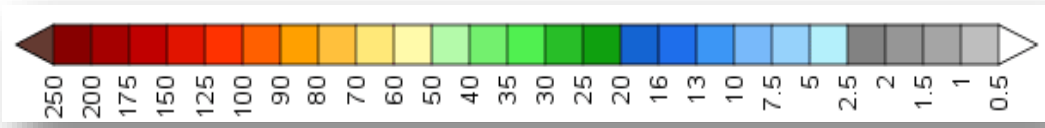
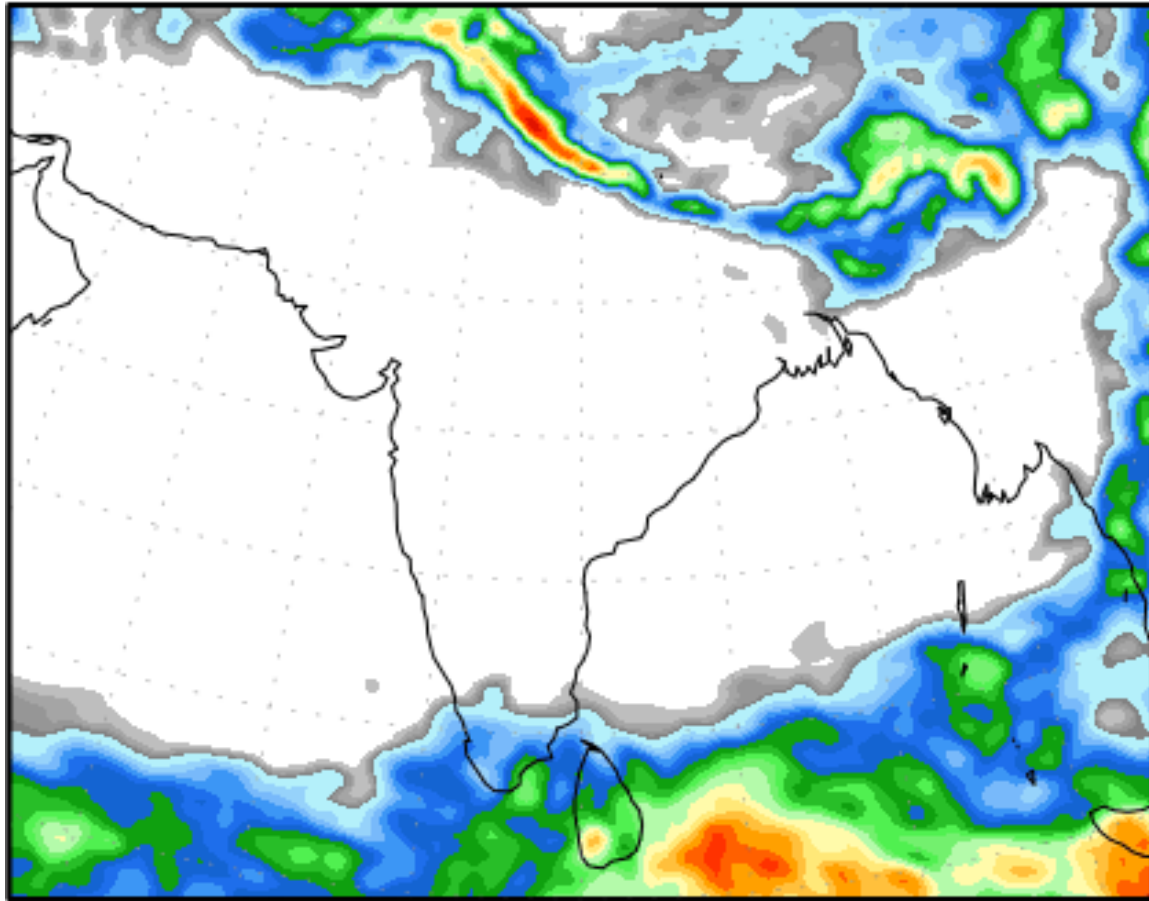


Figure:2. Precipitation forecast for 04 to 12 March 2021 (Source: NOAA NCEP).

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