

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 02 March 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Maximum temperatures are currently 3-6°C above normal over North, West, Central & East India covering Rajasthan, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Saurashtra & Kutch, Vidarbha, Madhya Pradesh, Chhattisgarh, Odisha, Bihar, Jharkhand and Gangetic West Bengal. No significant change in maximum temperatures over the country during next 4-5 days.
- A fresh feeble Western Disturbance as a cyclonic circulation lies over north Pakistan & neighbourhood in lower tropospheric levels. Under its influence, isolated rainfall/snowfall likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh and Uttarakhand on 03rd & 04th March. Isolated thunderstorm/lightning also likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad and Himachal Pradesh on 03rd March.
- Another fresh Western Disturbance is likely to affect Western Himalayan Region from 05th March. Under its influence, scattered to fairly widespread rainfall/snowfall activity likely over the region during 06th-08th March with maximum intensity on 07th March.
- Scattered to fairly widespread rainfall likely over Arunachal Pradesh and isolated rainfall over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura with thunderstorm/lightning during next 2-3 days and thundersquall over Assam & Meghalaya on 04th March, 2021.
- Strong surface winds (speed reaching 20-30 kmph) likely to prevail over Punjab, Haryana, Chandigarh & Delhi and Uttar Pradesh during next 2 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 many places over Arunachal Pradesh; at a few places over Sub-Himalayan West Bengal & Sikkim and at isolated places over Nagaland, Manipur, Mizoram & Tripura and Assam & Meghalaya
- Heavy rainfall observed at isolated places over Arunachal Pradesh.

- Maximum Temperature Departures as on 01-03-2021: Maximum temperatures were markedly above normal (5.1°C or more) at many places over East Madhya Pradesh and Jharkhand; at a few places over Gangetic West Bengal; at isolated places over Odisha; appreciably above normal (3.1°C to 5.0°C) at most places over Uttarakhand, Uttar Pradesh and Vidarbha; at many places over Himachal Pradesh, West Rajasthan, Saurashtra & Kutch, Bihar, Chhattisgarh and Nagaland, Manipur, Mizoram & Tripura; at a few places over West Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya; at isolated places over Punjab, Haryana, Chandigarh & Delhi and Tamilnadu, Puducherry & Karaikal; above normal (1.6°C to 3.0°C) at most places over Konkan & Goa, Madhya Maharashtra, Marathwada and Rayalaseema; at many places over Telangana and Coastal Karnataka; at a few places over Gujarat Region; at isolated places over Coastal Andhra Pradesh & Yanam and Kerala & Mahe. They were below normal (-1.6°C to -3.0°C) at isolated places over Andaman & Nicobar Islands and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 39.8°C was reported at Baripada & Talcher (Odisha) and Chandrapur (Vidarbha) over the country.
- Minimum Temperature Departures as on 02-03-2021: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at most places over North Interior Karnataka; at a few places over Nagaland, Manipur, Mizoram & Tripura and Madhya Maharashtra; at isolated places over East Madhya Pradesh, Gangetic West Bengal and Konkan & Goa; above normal (1.6°C to 3.0°C) at most places over Jharkhand, Marathwada and Coastal Karnataka; at many places over Punjab, Bihar, Chhattisgarh and Assam & Meghalaya; at a few places over West Uttar Pradesh, West Madhya Pradesh and Sub-Himalayan West Bengal & Sikkim; at isolated places over Haryana, Chandigarh & Delhi, East Uttar Pradesh and Vidarbha. They are appreciably below normal (-3.1°C to -5.0°C) at a few places over East Rajasthan; at isolated places over Gujarat Region; below normal (-1.6°C to -3.0°C) at many places over South Interior Karnataka; at a few places over Tamil Nadu, Puducherry & Karaikal; at isolated places over West Rajasthan and Saurashtra & Kutch and near normal over rest parts of the country. The lowest minimum temperature of 5.4°C reported at Udaipur (East Rajasthan) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 02 March (Day 1): Thunderstorm with lightning very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

- 03 March (Day 2): Thunderstorm with lightning very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- 04 March (Day 3): Thunderstorm with lightning & squall (speed reaching 50 kmph) very likely at isolated places over Assam & Meghalaya. 05 March (Day 4): Thunderstorm with lightning likely at isolated places over Arunachal Pradesh.
- 06 March (Day 5): Thunderstorm with lightning & hail likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh and Uttarakhand and with lightning at isolated places over Arunachal Pradesh.
- The weather outlook for seven days i.e., 02 Mar to 10 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)

Konkan region

Weather condition:

Atmospheric condition was cloudy during morning hours around Dapoli during last week. Therefore 6.5 to 8.6 Bright sunshine hours was recorded during last week. During last week 0.4 mm rainfall was recorded at Agrometeorological observatory, Dr. B.S.K.K.V. Dapoli. The maximum and minimum temperature ranged from 30.1 to 36.0 and 12.4 to 16.0 oC respectively. Wind velocity ranged from 2.9 to 4.0 km and wind was blowing from south westerly Direction.

Contingency measure:

- Mango: Due to forecast for rise in temperature and decrease in humidity during next five days, to minimize the pre-mature fruit drop of mango, as per availability of water, apply 100 liter /tree at weekly or 150 to 200 liter/ tree at 15 days interval from pea to arecanut fruit size. For reducing fruit drop and quality improvement of mango fruits, spray 1 % Potassium nitrate at pea, marble and arecanut size of mango fruits. The pre-harvest bagging with newspaper bag of size 25 X 20 cm at marble to egg stage as per recommendation of D.B.S.K.K.V. helps to reduce the fruit drop, increases the fruit weight, pulp weight, controls attack of fruit fly on fruits and produces spotless fruits of mango. 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.

- Cashewnut: There is possibility for incidence of cashew apple and nut borer, if incidence is noticed spray Profenophos 50%EC @ 15 ml per 10 liter of water. (insecticide is not under label claim).
- Lablab bean: Due to forecast for rise in temperature and decrease in humidity, provide irrigation to lablab bean crop which is in flowering or pod filling stage. There is possibility of incidence of pod borer on lablab bean crop which initially feed on buds and then on tender pods. If incidence is noticed, collect and destroy all infected pods and spray 5% neem seed kernel extract or Quinalphos 25% EC @ 20ml of Dimethoate 30% EC @ 12 ml per 10 liter of water.
- Groundnut: Due to forecast for rise in temperature and decrease in humidity may leads to accelerate evaporation rate, hence provide irrigation to the groundnut crop at 7-8 days interval.
- Coconut: Due to forecast for rise in temperature and decrease in humidity, provide irrigation to first four years old coconut orchard at 5 to 6 days interval and for above four years old orchard provide irrigation at 7 to 8 days interval. Apply 3rd split dose of fertilizers of 750 gm urea and 667 gm muriate of potash in circular basin to above five-year-old coconut palm. Apply 1/5th, 2/5th, 3/5th and 4/5th of above-mentioned fertilizer dose per tree for 1,2,3 and 4-year-old coconut plantation, respectively. Apply 10 kg neem cake and micro nutrients (zinc, boron, molybdenum and copper) 200 gms per plant at the time of 2nd to 3rd split dose of fertilizer.
- Arecanut: Due to forecast for rise in temperature and decrease in humidity, provide irrigation to arecanut orchard at 5-6 days interval.
- Cucurbitaceous crops/Water melon: Due to forecast for rise in temperature and decrease in humidity, provide irrigation to cucurbitaceous crops at 5-6 days interval. There is possibility for incidence of fruit fly in watermelon, cucurbitaceous crop. For effective control of fruit fly, install cue lure Rakshak trap @ 2 nos. per acre at the time of initiation of flowering.
- Brinjal: Due to forecast for rise in temperature and decrease in humidity, provide irrigation to brinjal crop at 5-6 days interval. There is possibility of incidence of shoot and fruit borer on Brinjal, if incidence is noticed, collect and destroy all infected shoots and fruits and spray Deltamethrin 2.8%EC @ 10 ml per 10 liter of water
- Milch animal: Provide clean, hygienic and plenty amount of drinking water to farm animals. To reduce the stress of heat in farm animals, provide roughages by mixing with solution of 1% jaggery and 0.5% salt separately. To

protect animals from heat, sprinkle cold water on animals during the afternoon, it will help to maintain the body temperature.

- Poultry: There is possibility for increase in temperature during day hence protect poultry birds from heat. In poultry shed, increase the water pot and provide adequate and clean water for drinking

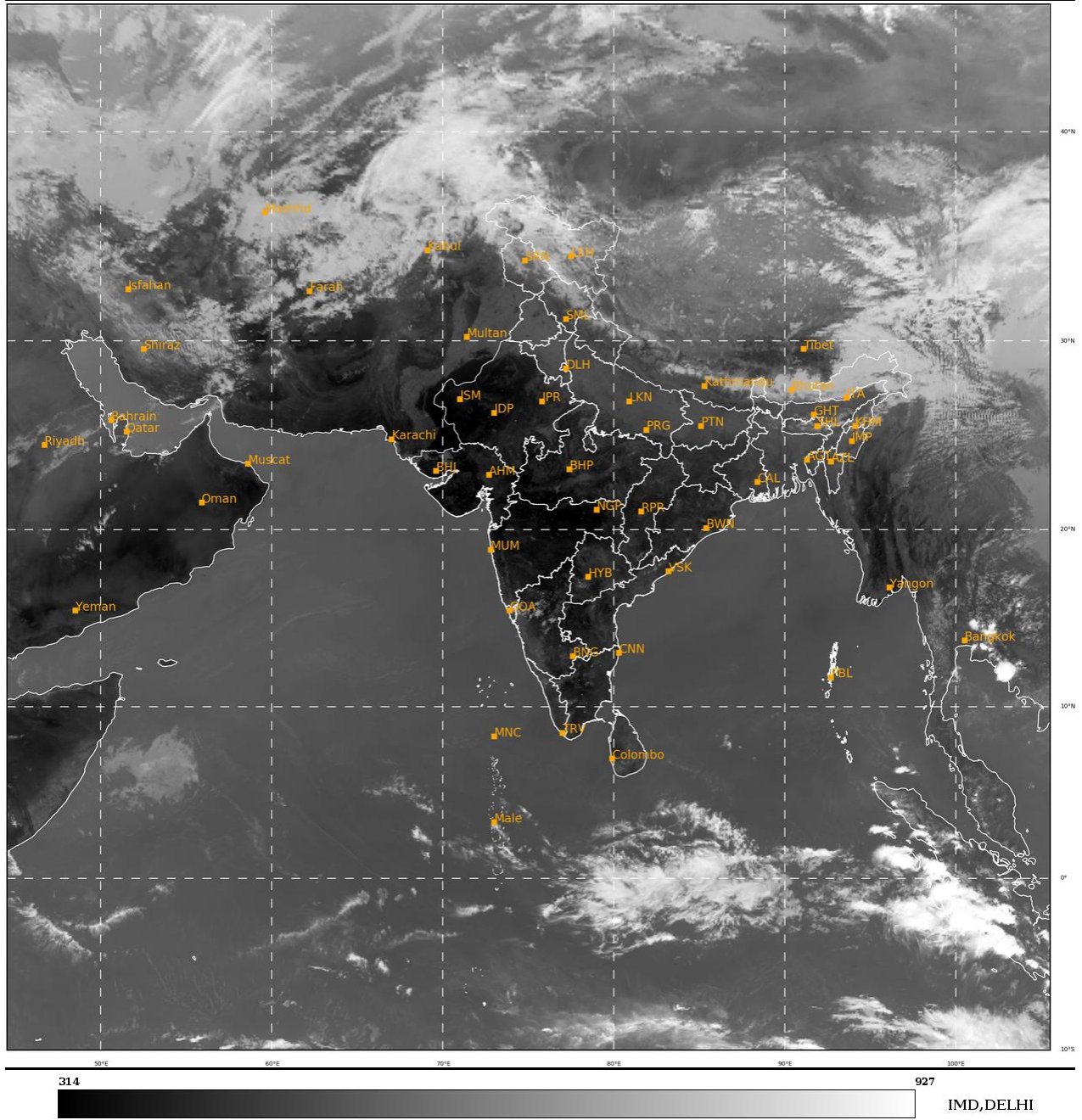


Figure: 1. Latest available satellite picture as on 02 March 2021 at 1357 Hrs (IST). (Source: IMD).

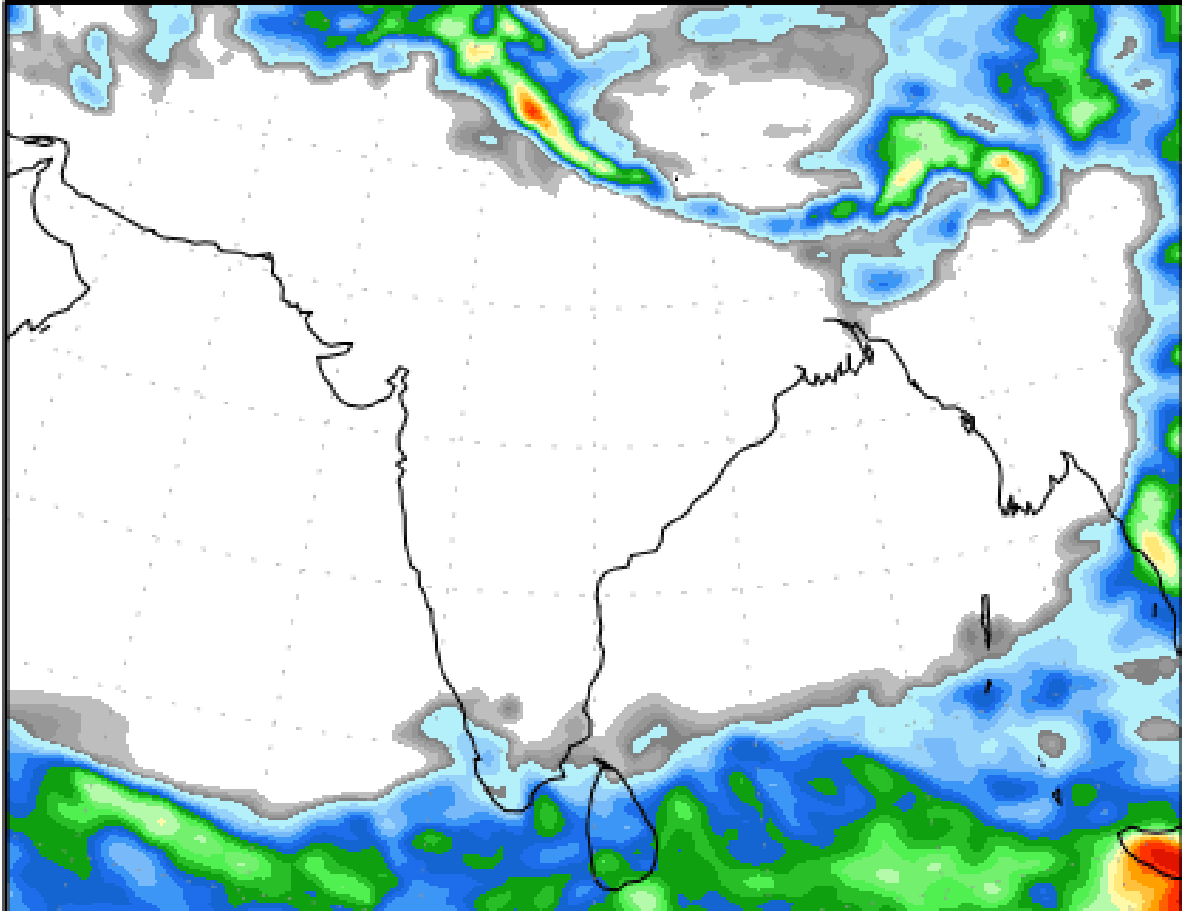


Figure:2. Precipitation forecast for 02 to 10 March 2021 (Source: NOAA NCEP).

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