

All India Coordinated Research Project on Agrometeorology

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Daily Crop Weather Information as on 18 March 2021

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Significant Weather Features (IMD)

- A Western Disturbance as a cyclonic circulation lies over Jammu & Kashmir and neighbourhood at 3.1 km above mean sea level. Under its influence, isolated rainfall/snowfall very likely over the Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and West Uttar Pradesh on today, the 18th March, 2021.
- Two cyclonic circulations, one over East Rajasthan & neighbourhood and another over Marathwada & neighbourhood in lower tropospheric levels. Under their influence, isolated to scattered rainfall with thunderstorm, lightning and gusty winds (speed reaching 30-40 kmph) very likely over Madhya Pradesh, Vidarbha and Chhattisgarh during next 3 days. Isolated hailstorm also very likely over West Madhya Pradesh and Vidarbha on 18th & 19th March; over East Madhya Pradesh on 19th March and over Marathawada and Telangana on 19th & 20th March, 2021.
- Under the influence of a trough in westerlies in lower tropospheric levels with its axis at 1.5 km above mean sea level roughly along longitude 88°E to the north of latitude 22°N, isolated rainfall very likely over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and Assam & Meghalaya during next 4-5 days.
- Under the influence of an intense Western Disturbance, scattered to widespread rainfall/snowfall likely over the Western Himalayan Region and isolated to scattered light to moderate rainfall over adjoining plains of Northwest India during 21st-24th March. Isolated thunderstorm/lightning/hailstorm also likely over the region during the same period. Isolated heavy rainfall/snowfall also likely over the Western Himalayan Region on 22nd & 23rd March, 2021.
- No heat wave very likely over the country during next 5 days except over Saurashtra & Kutch, where heat wave conditions in isolated places are very likely on 18th March, 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 isolated places over Arunachal Pradesh, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Odisha, Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam and Telangana.
- Thunderstorm recorded (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Madhya Pradesh, Chhattisgarh and Vidarbha.
- Heat Wave to Severe Heat Wave conditions were observed in isolated pockets over Saurashtra & Kutch.
- Maximum Temperature Departures as on 17-03-2021: Maximum temperatures were markedly above normal (5.1°C or more) at isolated places over Arunachal Pradesh; appreciably above normal (3.1°C to 5.0°C) at most places over West Rajasthan; at many places over Uttarakhand; at a few places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh and Saurashtra & Kutch; at isolated places over Assam & Meghalaya, West Madhya Pradesh and Vidarbha; above normal (1.6°C to 3.0°C) at most places over East Rajasthan and Gujarat Region; at many places over Haryana, Chandigarh & Delhi, Jharkhand and Konkan & Goa; at a few places over West Uttar Pradesh, East Madhya Pradesh, Coastal Karnataka and Kerala & Mahe. They were below normal (-1.6°C to -3.0°C) at a few places over Andaman & Nicobar Islands; at isolated places over Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 40.3°C was reported at Akola (Vidarbha) over the country.
- Minimum Temperature Departures as on 18-03-2021: Minimum temperatures are markedly above normal (5.1°C or more) at isolated places over West Rajasthan; appreciably above normal (3.1°C to 5.0°C) at at a few places over East Rajasthan, West Madhya Pradesh and Marathwada; at isolated places over West Uttar Pradesh, East Madhya Pradesh, Gujarat State, Vidarbha, Madhya Maharashtra, Arunachal Pradesh and Andaman & Nicobar Islands; above normal (1.6°C to 3.0°C) at many places over Uttarakhand and Konkan & Goa; at a few places over Haryana, Chandigarh & Delhi, Odisha and Coastal Karnataka; at isolated places over Punjab, East Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya. They are below normal (-1.6°C to -3.0°C) at many places over Rayalaseema; at a few places over South Interior Karnataka; at isolated places over Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal,

Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country. Today, the lowest minimum temperature of 11.9°C is reported at Pantnagar (Uttarakhand) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 18 March (Day 1): Thunderstorm with lightning, hail & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over West Madhya Pradesh; with lightning & hail at isolated places over Vidarbha; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over East Madhya Pradesh and Telangana and with lightning at isolated places over Rajasthan, Chhattisgarh, Coastal Andhra Pradesh & Yanam and Kerala & Mahe. Heat Wave conditions very likely at isolated places over Saurashtra & Kutch.
- 19 March (Day 2): Thunderstorm with lightning, hail & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Madhya Pradesh and Vidarbha; with lightning & hail at isolated places over Marathwada and Telangana; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Chhattisgarh and with lightning at isolated places over East Rajasthan, Odisha, Madhya Maharashtra, Coastal & South Interior Karnataka and Kerala & Mahe.
- 20 March (Day 3): Thunderstorm with lightning & hail very likely at isolated places over Marathwada and Telangana; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Vidarbha and Chhattisgarh and with lightning at isolated places over Madhya Pradesh, Jharkhand, Gangetic West Bengal, Odisha, Madhya Maharashtra, Karnataka and Kerala & Mahe.
- 21 March (Day 4): Thunderstorm with lightning & hail likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Himachal Pradesh and with lightning at isolated places over Punjab, Jharkhand, Gangetic West Bengal, Madhya Maharashtra, Marathwada, Konkan & Goa, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- 22 March (Day 5): Thunderstorm with lightning & hail likely at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi and Rajasthan and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, West Uttar Pradesh, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Heavy rainfall/snowfall likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Himachal Pradesh.

- The weather outlook for seven days i.e., 18 Mar to 26 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)

Gujarat

Weather condition:

The actual maximum temperature was 1.8 °C and the actual minimum temperature was 1.1 °C higher as compare to its normals. Total BSS was 67.9 hrs. with an average of 9.7 hrs. The daily average evaporation and wind speed was 5.7 mm and 2.3 km/hr respectively. The daily average RH during morning and afternoon was 84.9 % and 28.6 % respectively.

Contingency measure:

- Land preparation and sowing of summer crops.
- Wheat: Grain Milking/Daugh stage: Give light irrigation to Wheat crop at this stage. Protect crop from damage of birds.
- Pigeon pea: Pod development : Heliothis and Pod fly : Apply Quinalphos 25 EC 20 ml in 10 liter water on pods to control pod fly.
- Tobacco : De-suckuring should be done regularly. Harvest mature leaves.
- CASTOR : Capsule Maturity : Carefully harvest the matured capsule from the castor plants.
- Gram: Maturity: Harvest mature crop and keep in the field for sun drying.
- 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.
- Vegetables : Flowering/ Reproductive : For the control of White fly/Aphid spray neem seed extract 500 ml or neem seed oil 50 ml in 10 liter water at 15 days interval (4 sprays) or Acetamiprid 20 % SP@ 5.0 gm/10 liter water at 15 days interval.
- Potato: Tuber development: Late blight: - Weather is congenial for outbreak of pest/disease in the crop. For effective control of late blight spray metalaxil MZ (Redomel gold) @ 20 gm of 10 liter water.
- Cattle: Keep animal shed hygienic and clean to avoid flies and mosquitoes. Keep indoor at night time. Give warm drinking water thrice 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
LIC Mercator

18-03-2021/(0800 to 0827) GMT
18-03-2021/(1330 to 1357) IST

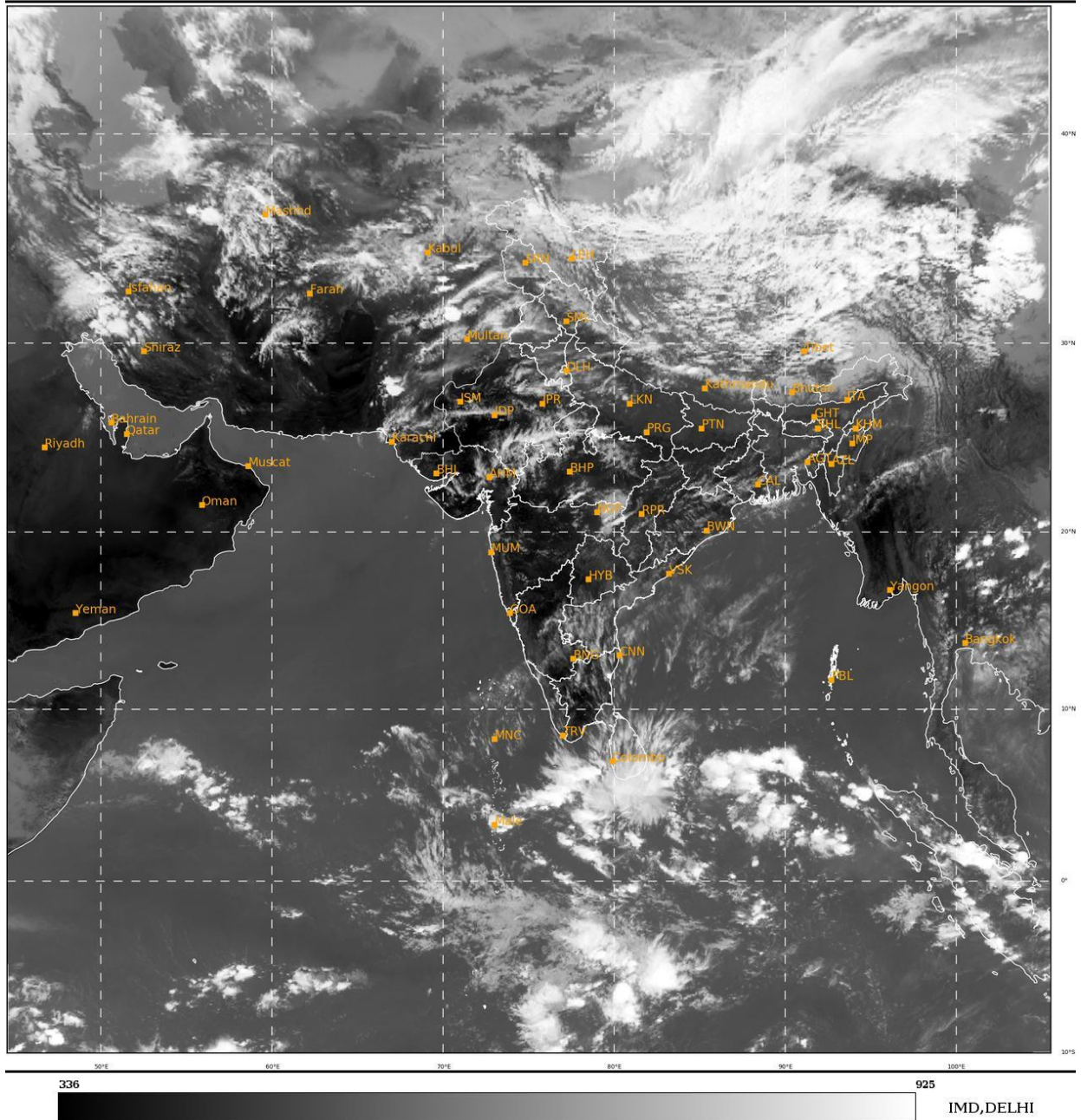


Figure: 1. Latest available satellite picture as on 18 March 2021 at 1357 Hrs (IST). (Source: IMD).

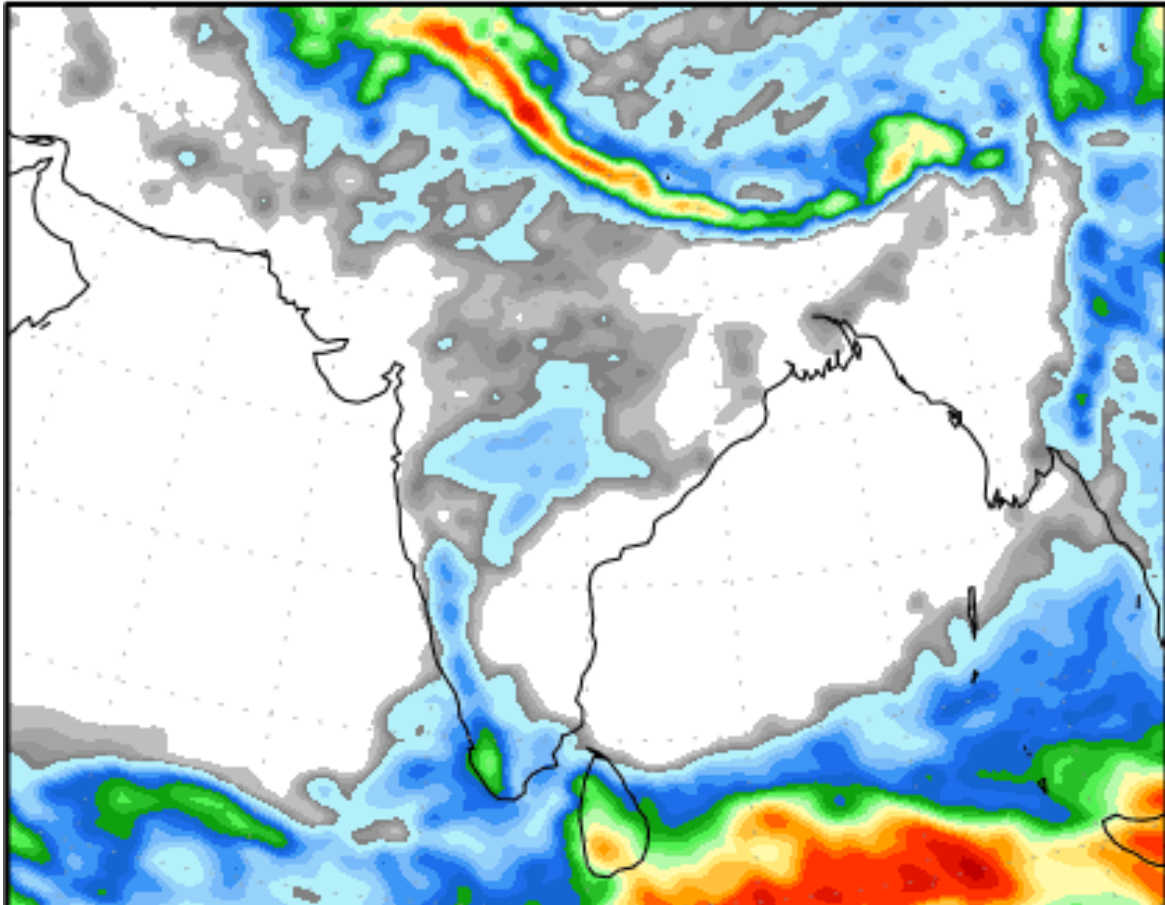


Figure:2. Precipitation forecast for 18 to 26 March 2021 (Source: NOAA NCEP).

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