

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 23 March 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Western Disturbance now seen as a cyclonic circulation over Afghanistan in mid-tropospheric levels with the trough aloft in upper tropospheric levels roughly along Long 65°E to the north of Lat 17°N. The induced cyclonic circulation lies over northwest Rajasthan & neighbourhood. Moisture incursion from north Arabian Sea over northwest India at lower & middle tropospheric levels is very likely to continue for next 12 hours. Under the influence of all these meteorological features:
 - (i) Widespread rainfall/snowfall and thunderstorm & lightning very likely over Western Himalayan Region (Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh and Uttarakhand) today, the 23rd March. Isolated hailstorm very likely over Uttarakhand during 23rd-24th March. Isolated heavy rainfall/snowfall also likely over Jammu, Kashmir, Gilgit, Baltistan & Muzaffarabad and Himachal Pradesh today, the 23rd March.
 - (ii) Scattered to Fairly widespread rainfall and thunderstorm & lightning very likely over Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh and isolated over Rajasthan today, the 23rd March. Isolated hailstorm very likely over East Rajasthan today, the 23rd March.
 - (iii) Isolated to scattered rainfall and thunderstorm & lightning at isolated places likely over parts of Central & West India during next 2 days. Isolated hailstorm is also likely over parts of Madhya Pradesh, Vidarbha, Madhya Maharashtra and Marathawada on today, the 23rd March.
- Due to eastward movement of the above Western Disturbance, dry weather will prevail over Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh and Rajasthan, from tomorrow, the 24th March onwards. Clear weather conditions are very likely over Maharashtra and Madhya Pradesh from the 25th March.
- 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 most places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Punjab, Vidarbha, Marathwada and East Rajasthan; at many places over Madhya Maharashtra; at a few places over Uttarakhand, Haryana, Chandigarh & Delhi and Andaman & Nicobar Islands and at isolated places over West Rajasthan, West Uttar Pradesh, West Madhya Pradesh, Konkan & Goa, Odisha, Sub-Himalayan West Bengal & Sikkim, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.
- Heavy Rainfall recorded (from 0830 hours IST of yesterday to 0830 hours IST of today) at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan and Muzaffarabad, Uttarakhand, Rajasthan, West Uttar Pradesh, Punjab, Haryana, Chandigarh & Delhi, Madhya Pradesh, Marathawada, Madhya Maharashtra, Vidarbha and Kerala & Mahe.
- Maximum Temperature Departures as on 22-03-2021: Maximum temperatures were markedly above normal (5.1°C or more) at a few places over Assam & Meghalaya; appreciably above normal (3.1°C to 5.0°C) at many places over Nagaland, Manipur, Mizoram & Tripura; at a few places over Gangetic West Bengal, Odisha, Bihar and Uttar Pradesh; at isolated places over Saurashtra & Kutch and Konkan & Goa; above normal (1.6°C to 3.0°C) at most places over Jharkhand; at many places over Gujarat Region; at a few places over Madhya Pradesh, Coastal Karnataka and Coastal Andhra Pradesh & Yanam; at isolated places over Kerala & Mahe and Tamilnadu, Puducherry & Karaikal. They were appreciably below normal (-3.1°C to -5.0°C) at many places over Vidarbha and Himachal Pradesh; below normal (-1.6°C to -3.0°C) at a few places over Madhya Maharashtra, Marathawada, Telangana, South Interior Karnataka and Andaman & Nicobar Islands and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 40.2°C was reported at Bhubneshwar (Odisha) over the country.
- Minimum Temperature Departures as on 23-03-2021: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at many places over Haryana, Chandigarh & Delhi; at a few places over Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands and East Uttar Pradesh and at isolated places over West Madhya Pradesh; above normal (1.6°C to 3.0°C) at most places over Coastal Karnataka, Jharkhand and Odisha; at many places over Punjab, Gujarat Region,

Madhya Maharashtra, Gangetic West Bengal, West Uttar Pradesh and Chhattisgarh; at a few places over Saurashtra & Kutch, Konkan & Goa, Arunachal Pradesh, Bihar, East Madhya Pradesh and Lakshadweep and at isolated places over Himachal Pradesh, Telangana and Assam & Meghalaya. They are appreciably below normal (-3.1°C to -5.0°C) at a few places over Rayalseema and at isolated places over Coastal Andhra Pradesh & Yanam; below normal (-1.6°C to -3.0°C) at most places over South Interior Karnataka and near normal over rest parts of the country. Today, the lowest minimum temperature of 13.5°C is reported at Bulsar (Gujarat Region) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 23 March (Day 1): Thunderstorm with lightning, hail & gusty winds (speed reaching 40-50 kmph) very likely at isolated places over Uttarakhand and East Rajasthan; with lightning, hail & gusty winds (speed reaching 30-40 kmph) at isolated places over Madhya Pradesh, Vidarbha, Madhya Maharashtra and Marathawada; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, West Rajasthan, Chhattisgarh and Telangana and with lightning at isolated places over East Uttar Pradesh, Andaman & Nicobar Islands, Arunachal Pradesh, Goa and Kerala & Mahe. Duststorm (speed reaching 40-50 kmph) very likely at isolated places over Rajasthan. Heavy rainfall/snowfall very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Himachal Pradesh.
- 24 March (Day 2): Thunderstorm with lightning, hail & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Uttarakhand; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Telangana, Vidarbha and Chhattisgarh and with lightning likely at isolated places over East Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Kerala & Mahe, Madhya Maharashtra and Marathawada.
- 25 March (Day 3): Thunderstorm with lightning very likely at isolated places over Kerala & Mahe, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and Assam & Meghalaya.
- 26 March (Day 4): Thunderstorm with lightning likely at isolated places over Kerala & Mahe, Arunachal Pradesh and Assam & Meghalaya.
- 27 March (Day 5): Thunderstorm with lightning likely at isolated places over Kerala & Mahe.

- The weather outlook for seven days i.e., 23 Mar to 31 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 1.1°C and the actual minimum temperature was 1.2°C higher as compare to its normals. Total BSS was 61.8 hrs. with an average of 8.8 hrs. The daily average evaporation and wind speed was 6.1 mm and 2.4 km/hr respectively. The daily average RH during morning and afternoon was 74.9 % and 29.7 % 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.
- Summer greengram : Keep crop weed free till 45 days of sowing. 2 to 3 interculturing and hand weeding is advised or apply Imazethapyr 10 % SL 75 g a.i./ha. at 15 to 20 days of sowing.
- CASTOR : Capsule Maturity : Carefully harvest the matured capsule from the castor plants.
- 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.
- Brinjal : Install Pheromone trap with Luci-Lure @ 40 traps/ha for management of shoot and fruit borer of brinjal and replace lure at 21 days interval. Uproot and burn little leaf diseases infected brinjal plant and spray any systemic insecticide.
- 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
L1C Mercator

23-03-2021/(0930 to 0956) GMT
23-03-2021/(1500 to 1526) IST

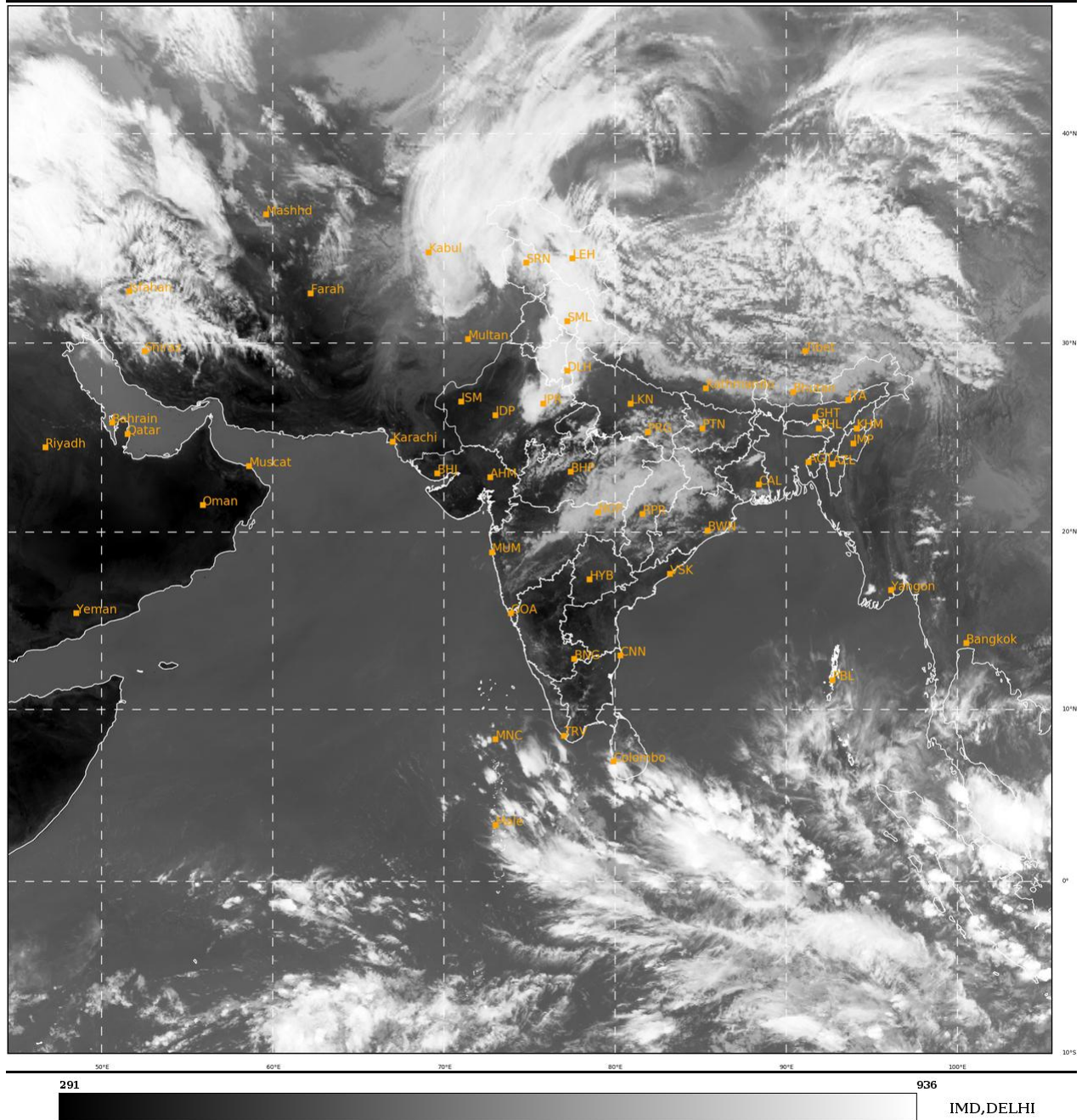


Figure: 1. Latest available satellite picture as on 23 March 2021 at 1526 Hrs (IST). (Source: IMD).

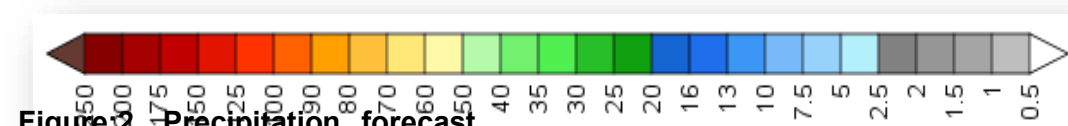
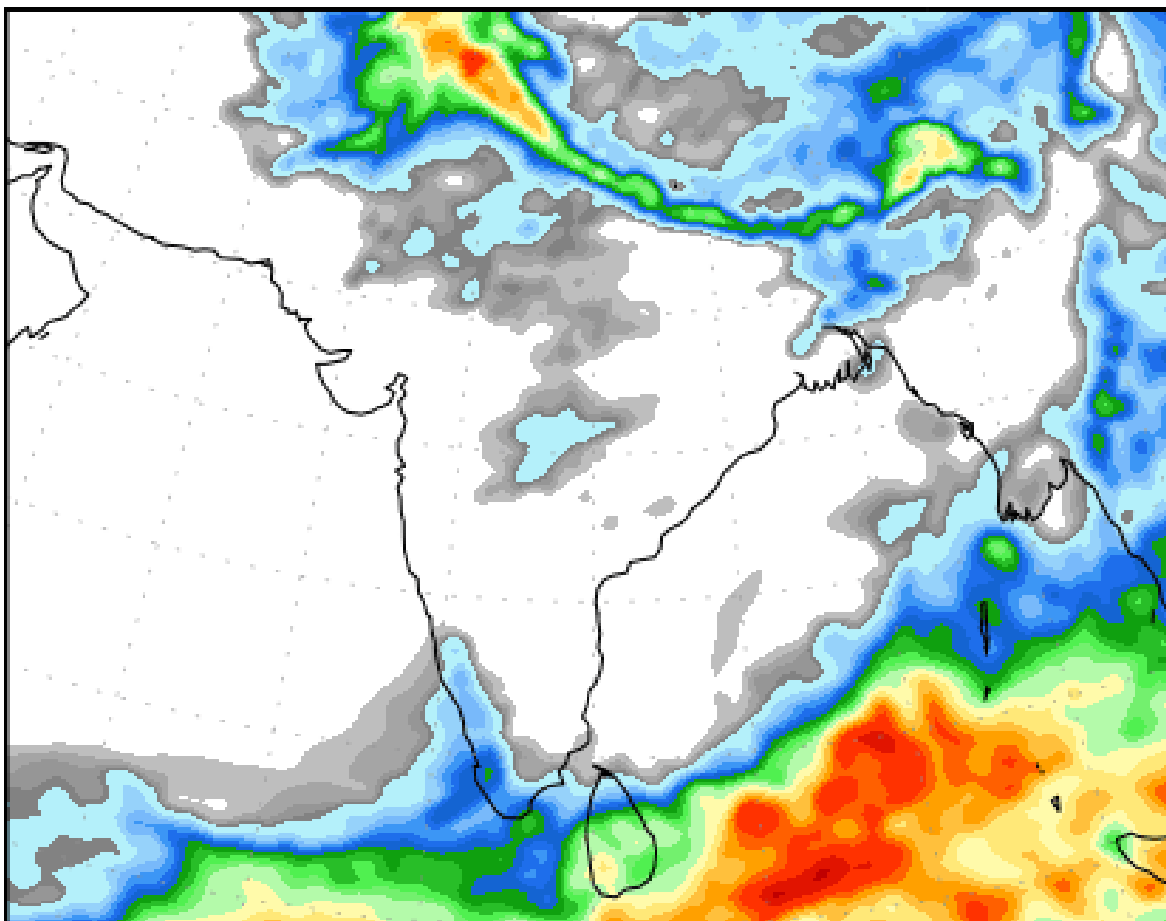


Figure 2. Precipitation forecast for 23 to 31 March 2021 (Source: NOAA NCEP).

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