

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 20 March 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A Western Disturbance as a cyclonic circulation at 3.1 km lies over north Pakistan & neighbourhood and an induced cyclonic circulation likely to form over Central Pakistan & adjoining West Rajasthan by tomorrow. Another Western Disturbance in quick succession is likely to affect Western Himalayan Region & adjoining plains of Northwest India from night of 21st March, 2021. Under the influence of these systems:
 - (i) Scattered to widespread rainfall/snowfall and thunderstorm & lightning very likely over Western Himalayan Region (Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh and Uttarkhand) during 21st to 24th March, 2021.
 - (ii) Isolated hailstorm very likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad on 21st; over Himachal Pradesh on 22nd & 23rd and over Uttarkhand during 22nd to 24th March, 2021.
 - (iii) Isolated heavy rainfall/snowfall also likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad and Himachal Pradesh on 22nd March, 2021.
 - (iv) Isolated to scattered rainfall and thunderstorm & lightning very likely over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh and Rajasthan during 21st to 23rd March, 2021.
 - (v) Isolated hailstorm very likely over Punjab during 21st & 22nd; over Haryana, Chandigarh & Delhi on 22nd; over West Uttar Pradesh on 23rd and over Rajasthan on 22nd & 23rd March, 2021.
- A cyclonic circulation lies over Southeast Madhya Pradesh & adjoining Vidarbha and a north-south trough runs from Coastal Karnataka to Marathawada across Interior Karnataka & south Madhya Maharashtra in lower-tropospheric levels. Under the influence of these systems.
 - (i) Rainfall at isolated places very likely over parts of Central, West India & South peninsular India during next 4-5 days and over parts of East India during next 2 days.

(ii) Thunderstorm & lightning at isolated places likely over parts of Central & West India during next 3 days and over parts of East India during next 24 hours.

(iii) Isolated hailstorm also very likely over Marathawada on 20th March, 2021.

- 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 many places over Vidarbha; at a few places over West Madhya Pradesh and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttarakhand, Uttar Pradesh, Rajasthan, East Madhya Pradesh, Chhattisgarh, Bihar, Odisha, Arunachal Pradesh and Kerala & Mahe.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Rajasthan, Madhya Pradesh, West Uttar Pradesh, Bihar, Odisha, Vidharbha and Kerala & Mahe.
- Maximum Temperature Departures as on 19-03-2021: Maximum temperatures were markedly above normal (5.1°C or more) at many places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; at isolated places over Himachal Pradesh and Arunachal Pradesh; appreciably above normal (3.1°C to 5.0°C) at many places over Uttarakhand and Punjab; at a few places over Assam & Meghalaya; above normal (1.6°C to 3.0°C) at many places over Haryana, Chandigarh & Delhi and Coastal Karnataka; at a few places over Saurashtra & Kutch, Konkan & Goa, Rajasthan and Gangetic West Bengal and at isolated places over Odisha, Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura and Coastal Andhra Pradesh & Yanam. They were markedly below normal (- 5.1°C or less) at many places over Madhya Pradesh; at a few places over Vidarbha and at isolated places over Chhattisgarh; appreciably below normal (-3.1°C to -5.0°C) at a few places over Madhya Maharashtra; below normal (-1.6°C to -3.0°C) at many places over Telangana; at a few places over Marathawada and at isolated places over Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 39.2°C was reported at Bhubaneswar (Odisha) over the country.
- Minimum Temperature Departures as on 20-03-2021: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) above normal (1.6°C to 3.0°C) at most places over Punjab and Bihar; at many places over West Rajasthan, Uttarakhand and Saurashtra & Kutch; at a few places over Haryana, Chandigarh & Delhi, West Uttar Pradesh, East Rajasthan, Odisha, Gangetic West Bengal Kerala & Mahe and

Andaman & Nicobar Islands and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, West Madhya Pradesh, Konkan & Goa, Coastal Karnataka and Assam & Meghalaya; They are markedly below normal (-5.1°C or less) at isolated places over Nagaland, Manipur, Mizoram & Tripura; below normal (-1.6°C to -3.0°C) at isolated places over Rayalaseema, Coastal Andhra Pradesh & Yanam, North & South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal; at isolated places over Coastal Andhra Pradesh & Yanam and near normal over rest parts of the country. Today, the lowest minimum temperature of 12.4°C reported at Malanjhand (East Madhya Pradesh) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 20 March (Day 1): Thunderstorm with lightning & hail very likely at isolated places over Marathwada; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Vidarbha, Madhya Maharashtra and Kerala & Mahe and with lightning at isolated places over Madhya Pradesh, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Telangana, South Interior Karnataka and Tamilnadu, Puducherry & Karaikal.
- 21 March (Day 2): Thunderstorm with lightning, hail & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; with lightning & hail at isolated places over Himachal Pradesh and Punjab; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Uttarakhand, Madhya Maharashtra and Kerala & Mahe and with lightning at isolated places over Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Marathwada, Konkan & Goa, Telangana and Tamilnadu, Puducherry & Karaikal. Heavy rainfall/snowfall very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad.
- 22 March (Day 3): Thunderstorm with lightning, hail & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi and Rajasthan; with lightning & hail at isolated places over Himachal Pradesh; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, West Uttar Pradesh and West Madhya Pradesh and with lightning at isolated places over East Madhya Pradesh, Vidarbha, Madhya Maharashtra, Marathwada, Konkan & Goa, Telangana, Tamilnadu, Puducherry & Karaikal and

Kerala & Mahe. Heavy rainfall/snowfall very likely at isolated places over Jammu & Kashmir, Ladakh, GilgitBaltistan & Muzaffarabad and Himachal Pradesh.

- 23 March (Day 4): Thunderstorm with lightning, hail & gusty winds (speed reaching 30-40 kmph) likely at isolated places over Uttarakhand, West Uttar Pradesh and Rajasthan with lightning & hail at isolated places over Himachal Pradesh; lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over West Madhya Pradesh and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Punjab, Haryana, Chandigarh & Delhi, East Uttar Pradesh, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana and Kerala & Mahe.
- 25 March (Day 5): Thunderstorm with lightning, hail & gusty winds (speed reaching 30-40 kmph) likely at isolated places over Uttarakhand and with lightning likely at isolated places over Uttar Pradesh, Coastal Andhra Pradesh & Yanam and Kerala & Mahe.
- The weather outlook for seven days i.e., 20 Mar to 28 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)

Western U.P

Weather condition:

Weather will be mainly dry during 17 to 21 March , and low to medium Cloud coverage from 18-21 March but no rainfall forecast during this week. Maximum temperature may be expected 3.0- 4.00C higher to its normal, minimum temperature may be expected 4.0- 5.00C higher to its normal. North westerly / South- westerly winds may be expected and prevailing 7.5 to 10.7 kmph which will be 4-5 km/hr higher than its normal during this week as per forecast.

Contingency measure:

- Wheat: No rainfall forecast farmers are advised light irrigation should be done at evening time at flowering, anthesis, milking, dough stages of wheat crop.
- Barley:Harvest mature crop.
- Rabi maize:Light irrigation should be done silking/cobbbing stage of the crop.
- Pulses: Pigeon pea:Watchful insect and pest due to cloudy weather. If need spray of insecticide
- Pea :Weather will be mainly dry during this week farmers are advised harvest

mature crop.

- Gram: Watchful insect and pest due to cloudy weather. If need spray of insecticide.
- Lentil: Weather will be mainly dry during this week farmers are advised harvest mature crop. Zaid urd and moong: Sowing should be done.
- Mustard: Weather will be mainly dry during this week farmers are advised harvest mature crop.
- Linseed: Harvest mature crop, making bundles.
- Brinjal / Chilies: Pick up mature fruits in standing crop.
- Leafy Vegetable: Cutting, marketing and irrigation should be done.
- Potato: Dig out crop and put under safe place.
- Barseem: Light irrigation should be done.
- Animal: Balanced diet should be given for milch animal. The routine immunization of animals becomes necessary since disease decrease milk production capacity among milch animals if need concerned near Veterinary hospital.

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

20-03-2021/(0800 to 0827) GMT
20-03-2021/(1330 to 1357) IST

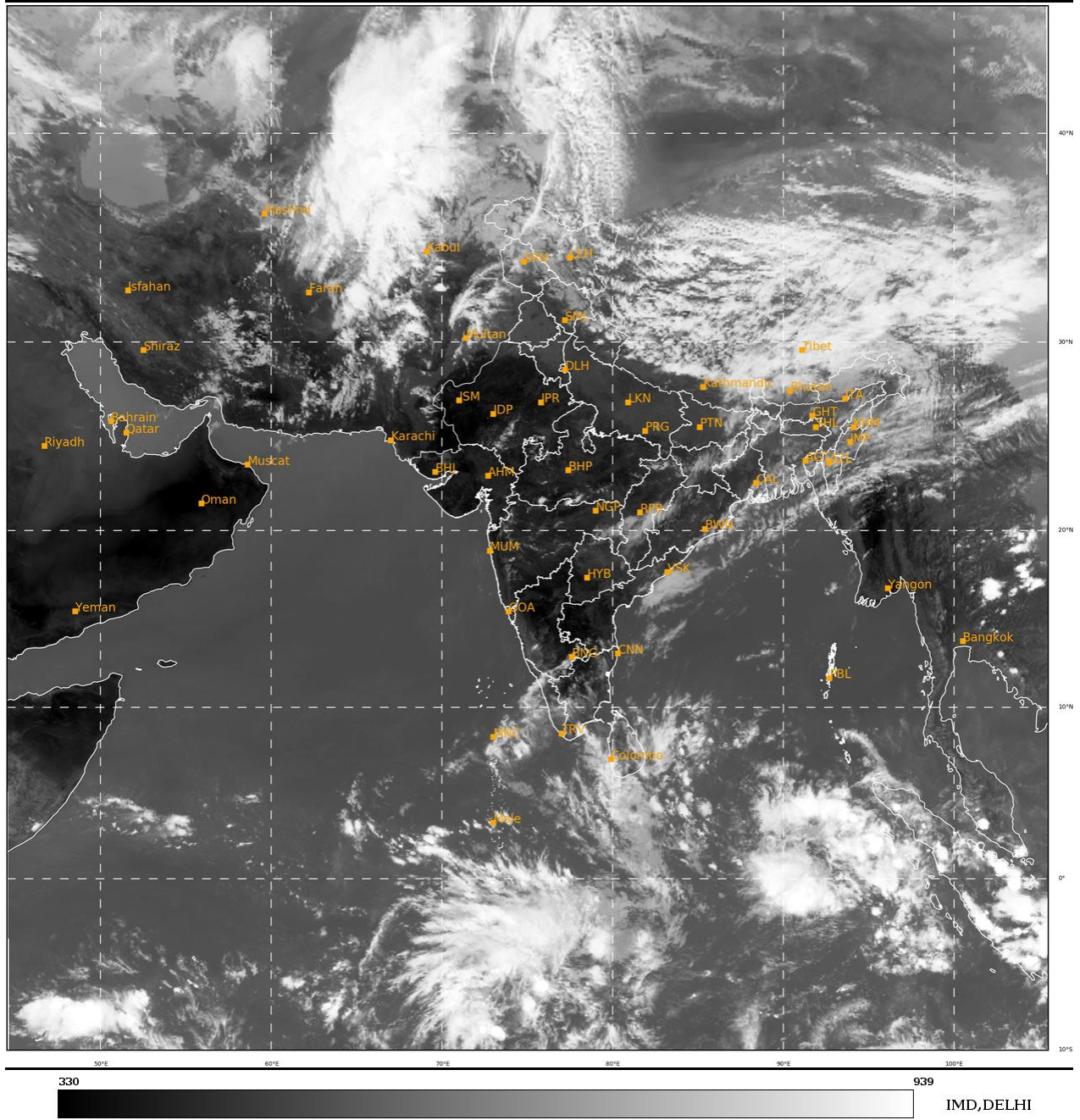


Figure: 1. Latest available satellite picture as on 20 March 2021 at 1357 Hrs (IST). (Source: IMD).

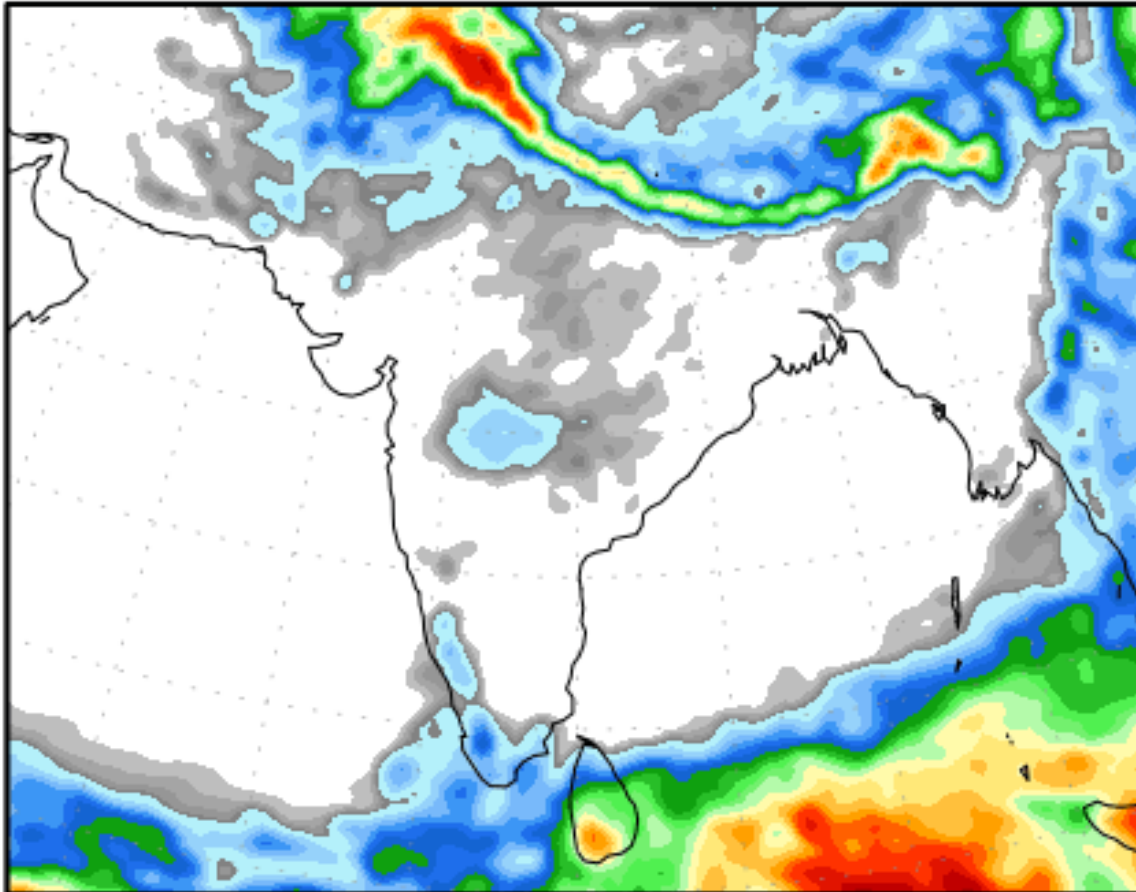


Figure:2. Precipitation forecast for 20 to 28 March 2021 (Source: NOAA NCEP).

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