

**All India Coordinated Research Project on Agrometeorology**  
**CRIDA, Santoshnagar, Hyderabad – 500 059**

**Daily Crop Weather Information as on 12 March 2021**

**Attention: Rajiv Maheshwari, OSD, ICAR**

**Significant Weather Features (IMD)**

- The Western Disturbance (WD) as a trough in mid & upper tropospheric westerlies runs roughly along longitude 68°E to the north of latitude 22°N. An induced cyclonic circulation lies over North Rajasthan & neighborhood in lower tropospheric levels. There is high divergence over Western Himalayan region in association with WD along with moisture feeding from Arabian Sea over northwest India. Under its influence:
  - (i) Fairly widespread to widespread light/ moderate rainfall/snowfall very likely over Western Himalayan Region (Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh and Uttarakhand) with isolated heavy falls over Jammu & Kashmir, Gilgit-Baltistan & Muzaffarabad on today the 12th March.
  - (ii) Isolated thunderstorm accompanied with lightning very likely over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; with lightning & hail over Himachal Pradesh and with lightning, hail & gusty winds (speed reaching 30-40 kmph) over Uttarakhand on today, the 12th March.
  - (iii) Isolated to fairly widespread light/moderate rainfall with isolated thunderstorm, lightning & gusty winds (speed reaching 30-40 kmph) also very likely over Punjab, Haryana, Chandigarh & Delhi, Rajasthan, Uttar Pradesh, Madhya Pradesh, Vidarbha and Chhattisgarh on 12th March. Isolated hailstorm also likely over north Chhattisgarh and Madhya Pradesh on 12th March.
  - (iv) Due to eastward movement of the above Western Disturbance and its confluence with easterlies from Bay of Bengal; isolated to scattered rainfall with thunderstorm, lightning & gusty winds (speed reaching 30-40 kmph) very likely over Bihar, Jharkhand, West Bengal & Sikkim and Odisha during 12th to 13th March. Isolated hailstorm also likely over Jharkhand and Gangetic West Bengal on 12th March.
- Two fresh Western Disturbances are very likely to affect the Western Himalayan Region & adjoining plains of Northwest India: first from night of 13th March and second from 16th March, 2021. It is very likely to cause scattered to fairly

widespread light/ moderate rainfall/snowfall with Isolated thunderstorm accompanied with lightning over Western Himalayan Region during 14 to 17 March, 2021.

- No heat wave 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, GilgitBaltistan & Muzaffarabad; at many places over Arunachal Pradesh, Sub- Himalayan West Bengal & Sikkim and Kerala & Mahe; at a few places over Punjab and Lakshadweep and at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Uttar Pradesh, Haryana, Chandigarh & Delhi, Rajasthan, Madhya Pradesh, Jharkhand, Odisha, Gangetic West Bengal, Konkan & Goa, Chhattisgarh, Coastal & South Indian Karnataka and Tamil Nadu, Puducherry & Karaikal.
- Heavy rainfall/snowfall (from 0830 hours IST yesterday to 0830 hours IST of today) observed at isolated places over Jammu & Kashmir, Ladakh, GilgitBaltistan & Muzaffarabad.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at many places over Punjab; at a few places over Haryana, Chandigarh & Delhi; at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Rajasthan, West Uttar Pradesh, West Bengal & Sikkim, Jharkhand, Assam & Meghalaya, Odisha, Madhya Pradesh, Chhattisgarh and Kerala & Mahe.
- Maximum Temperature Departures as on 11-03-2021: Maximum temperatures were markedly above normal (5.1°C or more) at many places over Himachal Pradesh and Punjab; at a few places over Haryana, Chandigarh & Delhi and at isolated places over West Rajasthan; appreciably above normal (3.1°C to 5.0°C) at most places over Jharkhand; at many places over Uttarakhand, Madhya Pradesh, West Rajasthan and Vidarbha; at a few places over East Rajasthan, Bihar and Odisha and at isolated places over Assam & Meghalaya and Gangetic West Bengal; above normal (1.6°C to 3.0°C) at many places over Gujarat Region; at a few places over Andaman & Nicobar Islands, Marathwada, Sub-Himalayan West Bengal & Sikkim and at isolated places over Konkan & Goa, Madhya Maharashtra, Saurashtra & Kutch, Chhattisgarh, Telangana, Coastal Andhra Pradesh, Coastal Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala &

Mahe. They were below normal (-1.6°C to -3.0°C) at isolated places over North Interior Karnataka and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 40.1°C was reported at Khandwa (West Madhya Pradesh) over the country.

- Minimum Temperature Departures as on 12-03-2021: Minimum temperatures are markedly above normal (5.1°C or more) at a few places over Bihar and at isolated places over East Madhya Pradesh; appreciably above normal (3.1°C to 5.0°C) at most places over Punjab and East Rajasthan; at many places over Sub-Himalayan West Bengal & Sikkim, Haryana, Chandigarh & Delhi and Uttar Pradesh and at a few places over West Rajasthan and Gangetic West Bengal; above normal (1.6°C to 3.0°C) at most places over Chhattisgarh; at many places over Uttarakhand, Odisha and Andaman & Nicobar Islands; at a few places over Assam & Meghalaya, Himachal Pradesh, Gujarat State, Marathawada and Coastal Karnataka and at isolated places over Vidarbha, Madhya Maharashtra and Nagaland, Manipur, Mizoram & Tripura. They are below normal (-1.6°C to -3.0°C) at many places over Rayalaseema; at a few places over Telangana and South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal and at isolated places over Coastal Andhra Pradesh & Yanam and Kerala & Mahe and near normal over rest parts of the country. Today, the lowest minimum temperature of 13.0°C reported at Mandla (East Madhya Pradesh) and Bulsar (Gujarat Region) over the plains of the country.

#### **Weather Warning during the next 5 days (IMD)**

- 12 March (Day 1): Thunderstorm with lightning, hail & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Uttarakhand, Madhya Pradesh, Chhattisgarh, Jharkhand and Gangetic West Bengal; with lightning & hail at isolated places over Himachal Pradesh; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Vidarbha, Sub-Himalayan West Bengal & Sikkim and Kerala & Mahe and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Bihar, Odisha, Madhya Maharashtra, Konkan & Goa, Karnataka and Lakshadweep. Heavy rainfall very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad.
- 13 March (Day 2): Thunderstorm with lightning, hail & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Gangetic West Bengal; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Jharkhand, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya,

Nagaland, Manipur, Mizoram & Tripura and Kerala & Mahe and with lightning at isolated places over Chhattisgarh, Bihar, Odisha and Arunachal Pradesh. Heavy rainfall very likely at isolated places over Arunachal Pradesh and Assam & Meghalaya.

- 14 March (Day 3): Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand and Arunachal Pradesh.
- 15 March (Day 4): Thunderstorm with lightning likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Assam & Meghalaya and Arunachal Pradesh.
- 16 March (Day 5): Thunderstorm with lightning likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad.
- The weather outlook for seven days i.e., 12 Mar to 20 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 1.4 °C and the actual minimum temperature was 0.8 °C higher as compare to its normals. Total BSS was 71.5 hrs. with an average of 10.2 hrs. The daily average evaporation and wind speed was 4.8 mm and 2.3 km/hr respectively. The daily average RH during morning and afternoon was 84.1 % and 27.0 % respectively.

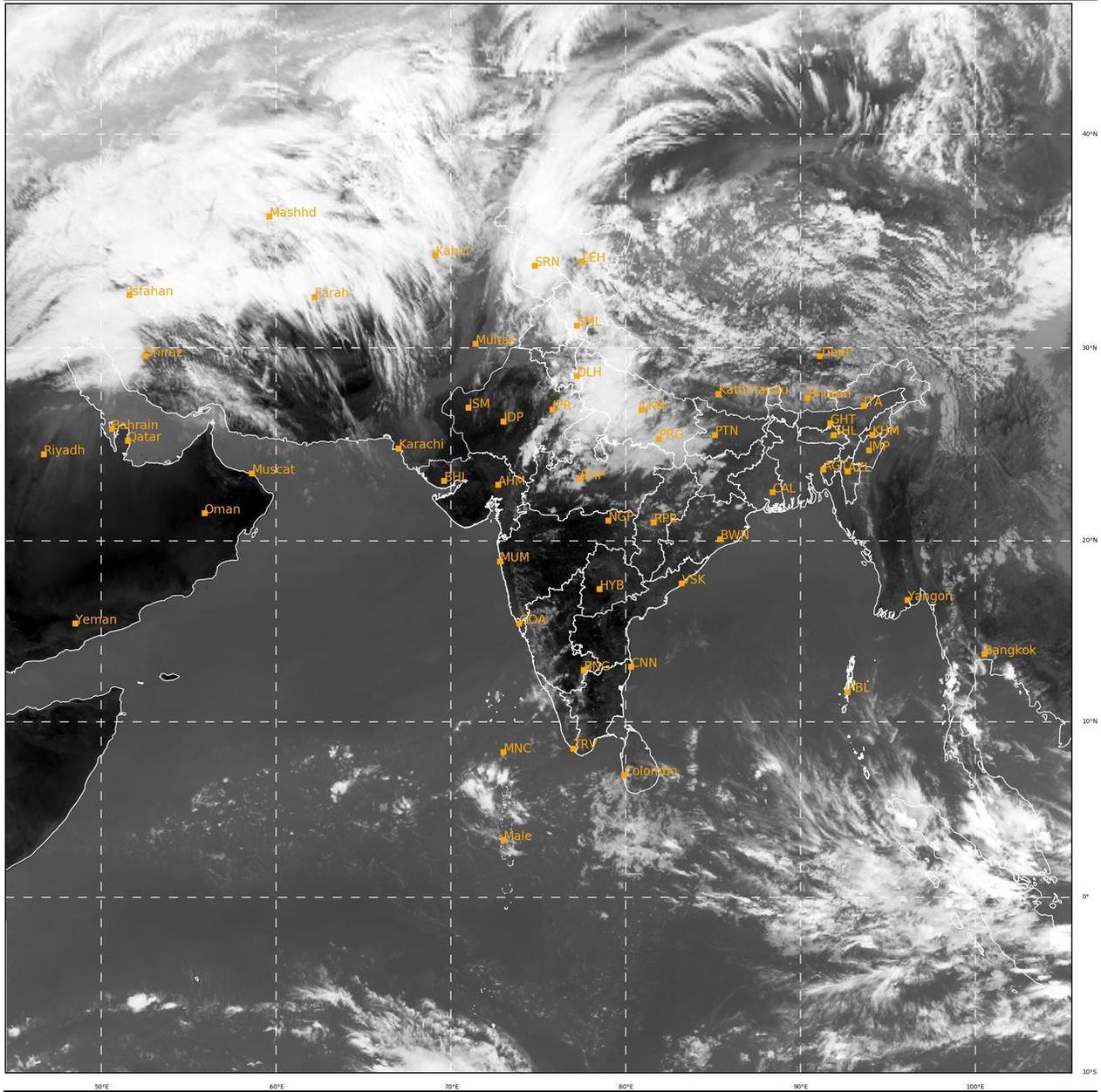
#### **Contingency measure:**

- Wheat : Daugh stage : Termite : To control termite apply chlorpyriphos 20 EC 2 to 2.5 liter/ha with irrigation water.
- 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.
- Gram: Maturity: Harvest mature crop and keep in the field for sun drying.
- Castor: Reproductive: Borer: Apply apply chlorpyriphos 20 Ec 20 ml or Quinalphos 25 Ec 20 ml in 10 lit of 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

12-03-2021/(0830 to 0857) GMT  
12-03-2021/(1400 to 1427) IST

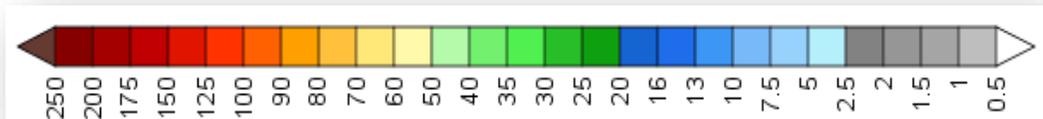
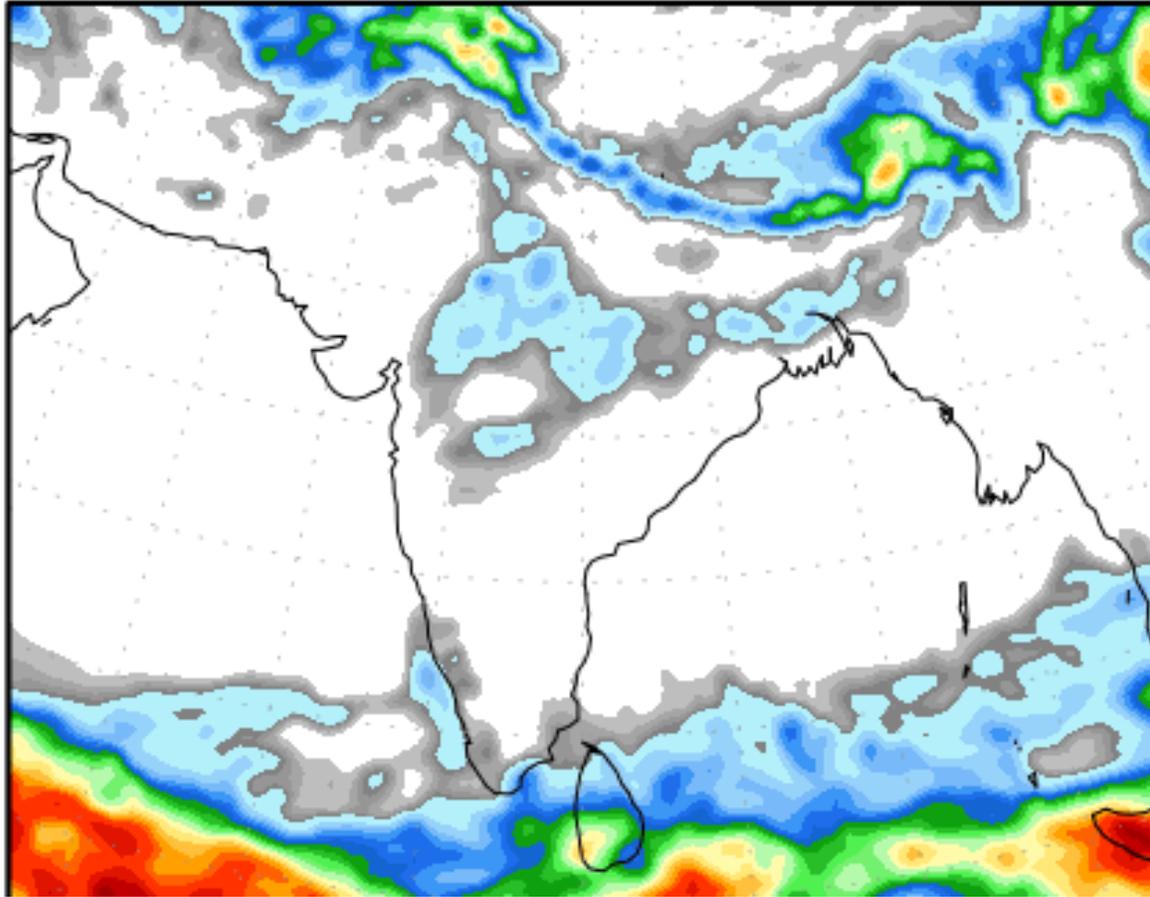


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IMD,DELHI

Figure: 1. Latest available satellite picture as on 12 March 2021 at 1427 Hrs (IST). (Source: IMD).



**Figure:2. Precipitation forecast for 12 to 20 March 2021 (Source: NOAA NCEP).**

*Disclaimer: The predictability of weather depends on many dynamic factors. The success of Agromet advisories provided here depends on the accuracy of the forecasts. In no event will India Meteorological Department (IMD) and Indian Council of Agricultural Research (ICAR) be liable to the user or any third party for any direct, indirect, incidental, consequential, special or exemplary damages or lost profit resulting from any use or misuse of the information on this bulletin.*