

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 20 February 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A trough in westerlies runs from northeast Bihar to southeast Arabian Sea across Jharkhand, Chhattisgarh, Telangana, Rayalaseema, South Interior Karnataka and north Kerala in mid-tropospheric levels and another trough in low levels easterlies lies over westcentral Bay of Bengal and runs from off north Tamil Nadu coast to south Odisha coast at lower tropospheric levels. Under its influence:
 - (i) Light to moderate rainfall at isolated/scattered places very likely over Andhra Pradesh & Yanam, Telangana, Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe during next 3 days.
 - (ii) Isolated thunderstorm & lightning very likely over Andhra Pradesh & Yanam, Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe during next 2 days and over Lakshadweep area during next 24 hours.
- Dense to Very Dense Fog in isolated/some pockets very likely over Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh in the morning hours of 21st & 22nd February and over northwest Rajasthan on 21st morning and reduction in intensity & spatial coverage thereafter.
- A fresh Western Disturbance is likely to affect Western Himalayan region from today. Under its influence:
 - (i) Light to moderate scattered to widespread rainfall/snowfall very likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad and isolated to fairly widespread rainfall/snowfall very likely over Himachal Pradesh during next 5 days and over Uttarakhand on 23rd & 24th February, 2021.
 - (ii) Isolated thunderstorm/lighting very likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad during next 5 days and over Himachal Pradesh and Uttarakhand during 22nd to 24th February, 2021. Isolated Hailstorm also very likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad on 21st & 22nd and over Uttarakhand on 22nd, 23rd & 24th February, 2021.
 - (iii) Isolated heavy rainfall/snowfall very likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad on 22nd February, 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 most places over South Interior Karnataka; at many places over Rayalaseema and Lakshadweep; at a few places over Coastal Karnataka and at isolated places over Arunachal Pradesh, Gangetic West Bengal, Odisha, Jharkhand, West Madhya Pradesh, Konkan & Goa, Marathawada, Madhya Maharashtra, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Telangana, Kerala & Mahe, North Interior Karnataka and Tamilnadu, Puducherry & Karaikal.
- Heavy rainfall observed at isolated places over Tamilnadu, Puducherry & Karaikal.
- Thunderstorm recorded (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Konkan & Goa, Coastal Andhra Pradesh, Telangana, Rayalaseema, Coastal & South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.
- Fog reported at 0530 hours IST of today: Dense to very dense fog in many pockets over Punjab and Delhi and in isolated pockets over Northwest Rajasthan and Moderate Fog in some parts of Haryana and in isolated pockets over West Uttar Pradesh, Bihar and Assam & Meghalaya.
- Maximum Temperature Departures as on 19-02-2021: Maximum temperatures were markedly above normal (5.1°C or more) at many places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; at a few places over Arunachal Pradesh and at isolated places over Saurashtra & Kutch; appreciably above normal (3.1°C to 5.0°C) at most places over West Rajasthan; at many places over Himachal Pradesh; at a few places over Gujarat region, West Uttar Pradesh and Konkan & Goa and at isolated places over Haryana, Chandigarh & Delhi, Nagaland, Manipur, Mizoram & Tripura and; above normal (1.6°C to 3.0°C) at many places over Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, East Uttar Pradesh and Uttarakhand and at isolated places over Gangetic West Bengal, Odisha and Bihar. They were markedly below normal (-5.1°C or less) at many places over Marathawada, Madhya Maharashtra and Rayalaseema; at a few places over Telangana and at isolated places over Vidarbha and South Interior Karnataka; below normal (-1.6°C to -3.0°C) at many places over Chhattisgarh; at a few places over East Madhya Pradesh, Coastal Andhra Pradesh & Yanam and Lakshadweep; at isolated places over West Madhya Pradesh, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Andaman & Nicobar Islands and near normal over rest parts of the country. Yesterday, the highest maximum

temperature of 38.0°C was reported at Jalgaon (Madhya Maharashtra) over the country.

- Minimum Temperature Departures as on 20-02-2021: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at a few places over Assam & Meghalaya, Chhattisgarh, Gujarat States and Andaman & Nicobar Islands; above normal (1.6°C to 3.0°C) at most places over Punjab; at many places over Jharkhand, Odisha and Nagaland, Manipur, Mizoram & Tripura; at a few places over Arunachal Pradesh, Jammu & Kashmir, Ladakh, GilgitBaltistan & Muzaffarabad, Himachal Pradesh, Gangetic West Bengal, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe and at isolated places over Uttarakhand, East Uttar Pradesh, Bihar, Coastal Andhra Pradesh & Yanam and Coastal Karnataka. They are appreciably below normal (-3.1°C to - 5.0°C) at a few places over South Interior Karnataka and at isolated places over North Interior Karnataka; below normal (-1.6°C to -3.0°C) at many places over Marathawada; at a few places over East Rajasthan, Vidarbha, Telangana, Madhya Maharashtra, Rayalaseema and Lakshadweep and at isolated places over Madhya Pradesh and Haryana, Chandigarh & Delhi and near normal over rest parts of the country. The lowest minimum temperature of 6.0°C reported at Narnaul (Haryana) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 20 February (Day 1): Dense to Very Dense Fog very likely in some pockets over Punjab and Haryana, Chandigarh & Delhi and in isolated pockets over West Uttar Pradesh and Dense Fog in isolated pockets over northwest Rajasthan. Thunderstorm with lightning very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, south Konkan & Goa, south Coastal Andhra Pradesh & Yanam, Rayalseema, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Lakshadweep and Karnataka. Heavy Rainfall very likely at isolated places over Tamil Nadu, Puducherry & Karaikal.
- 21 February (Day 2): Dense to Very Dense Fog very likely in isolated pockets over Punjab and Haryana, Chandigarh & Delhi and Dense Fog in isolated pockets over West Uttar Pradesh. Thunderstorm with lightning & hail very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and with lightning at isolated places over south Coastal Andhra Pradesh & Yanam, Rayalseema, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Karnataka.
- 22 February (Day 3): Thunderstorm with lightning & hail very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and

Uttarakhand and with lightning at isolated places over Himachal Pradesh. Heavy Rainfall/Snow very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad.

- 23 February (Day 4): Thunderstorm with lightning & hail likely at isolated places over Himachal Pradesh and Uttarakhand and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad.
- 24 February (Day 5): Thunderstorm with lightning & hail likely at isolated places over Himachal Pradesh and Uttarakhand and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Punjab.
- The weather outlook for seven days i.e., 20 to 28 February 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)

West bengal

Weather condition:

Weather conditions during the 7th week at Mohanpur, West Bengal: Maximum temperature: 25.5 to 31.0°C, Minimum temperature: 13.0 to 17.9°C, bright sun shine hours: 0.0 to 7.7 hours, Morning-time relative Humidity: 84 to 94 %, after noon-time R.H: 32 to 65%, weekly total pan evaporation: 13.9 mm, total weekly rainfall: 0.0 mm and average daily wind speed is 0.8 km/h.

Contingency measure:

- Boro-rice: Apply 1st topdressing after 24 days of transplanting or at the beginning of tillering stage at the rate of 15 kg urea per bigha. At the time of topdressing it is better to keep the field dry. Mix the fertilizer thoroughly with the soil after application. After 48 hours of fertilizer application, apply irrigation to obtain better fertilizer use efficiency.
- Mustard: In case of late sown mustard, apply irrigation. Do not irrigate those fields, where pods are turning yellowish. For late sown crop, aphid infestation may be high this week due to sudden rise of temperature. Apply 1.5 ml metasystox/ rogor per lt of water to control the pest.
- Potato: In this weather condition, occurrence of late blight is being reported from many areas. Farmers are advised to keep a close observation. As a control spray Blitox or Mancozeb @ 2.5g /liter of water at an interval of 5-7 days, thrice.
- Pointed gourd: attack of downy-mildew may be prevalent. Apply 2 gm

Crilaxyl or Ridomil per lt of water during late afternoon.

- Pulse crop: Light irrigation should be given as the crops are in flowering stage.;
- Brinjal: To control shoot and fruit borer apply Spionosad @ 1.0 ml/liter at dawn.

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

20-02-2021/(0800 to 0827) GMT
20-02-2021/(1330 to 1357) IST

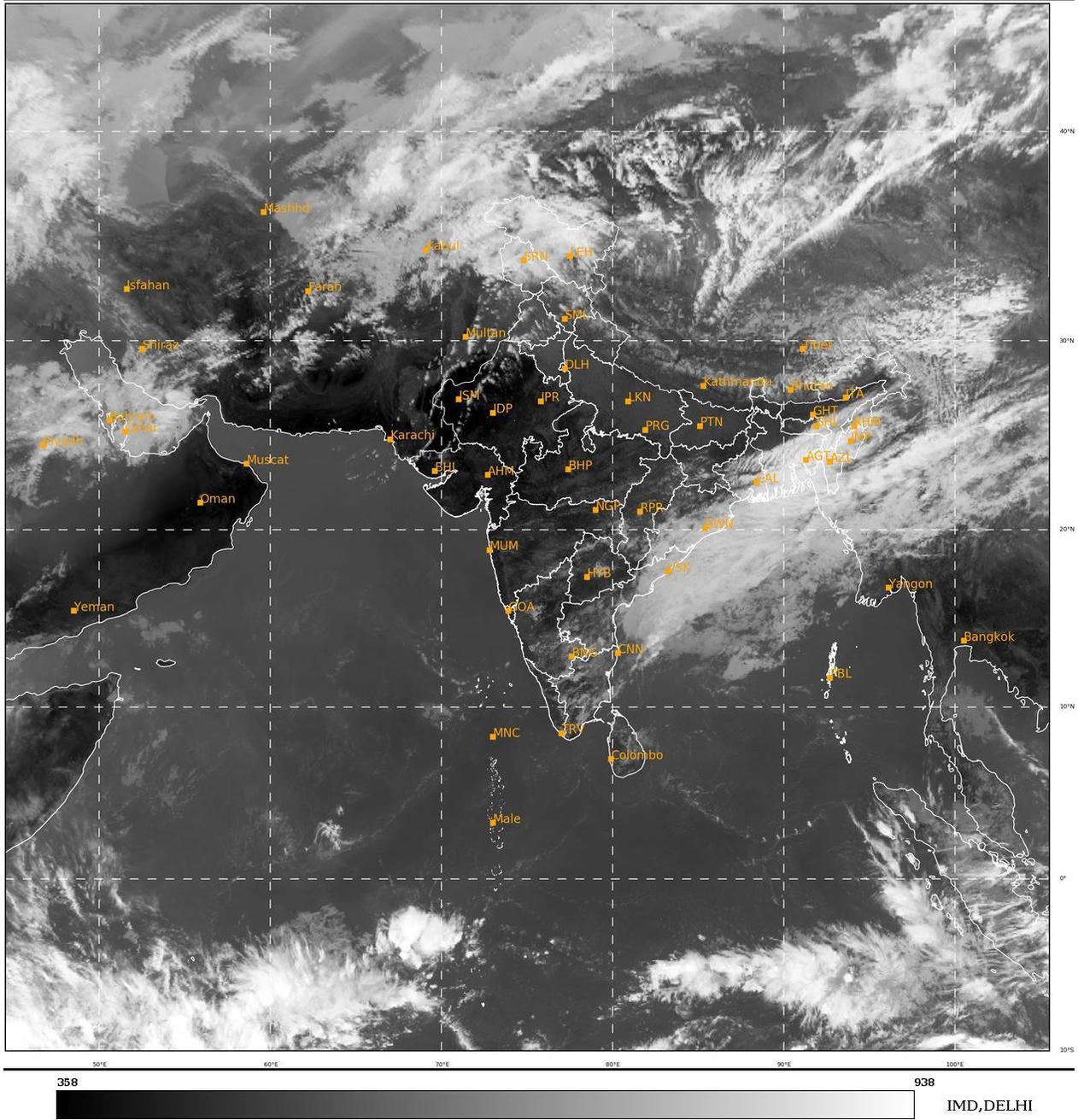


Figure: 1. Latest available satellite picture as on 20 February 2021 at 1357 Hrs (IST).
(Source: IMD).

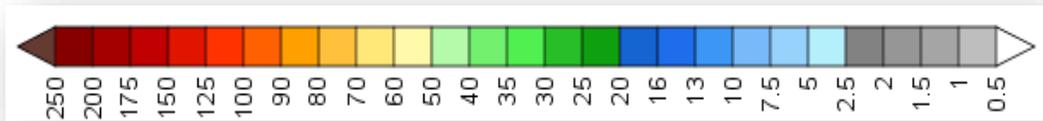
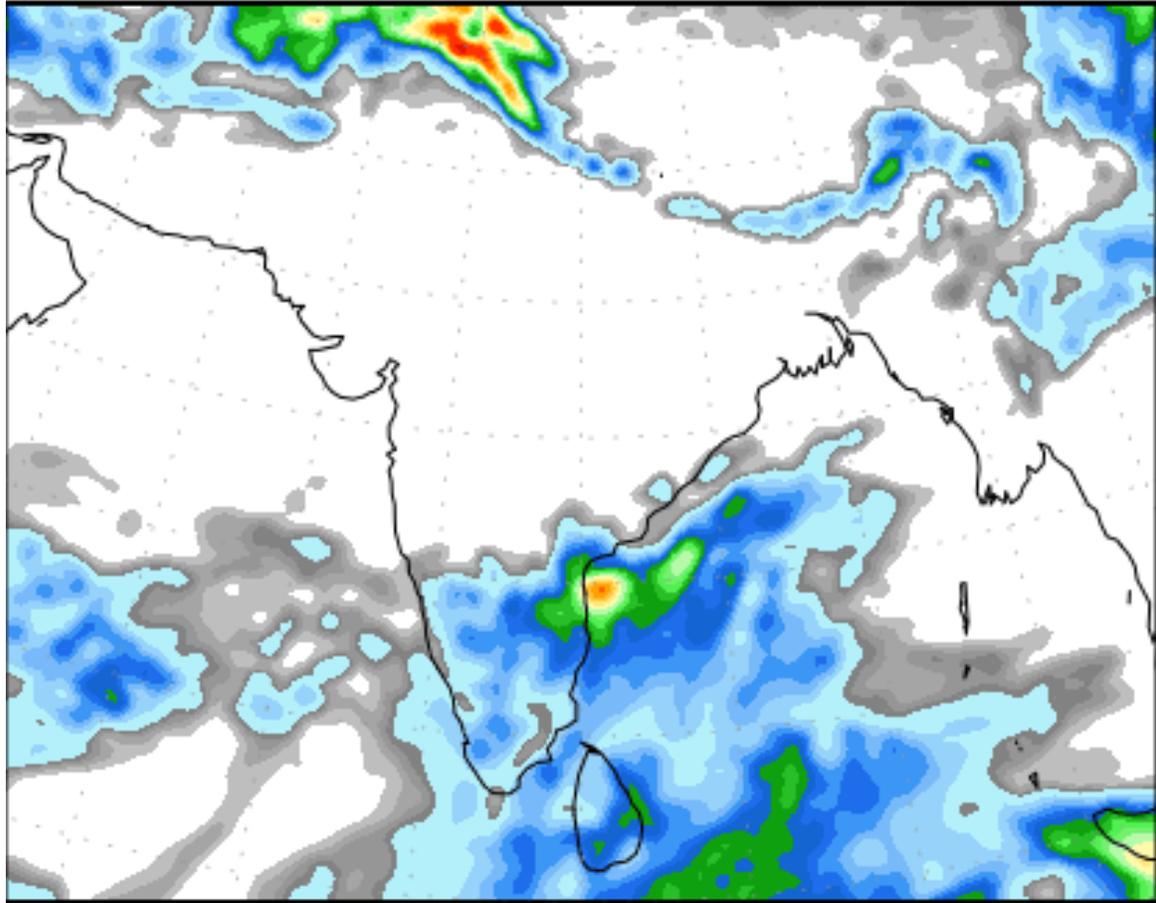


Figure:2. Precipitation forecast for 20 to 28 February 2021 (Source: NOAA NCEP).

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