

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 04 February 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Western Disturbance as a cyclonic circulation lies over North Pakistan & neighbourhood and extends upto mid-tropospheric levels and an induced cyclonic circulation lies over north Rajasthan & neighbourhood in lower tropospheric levels.
- Under the influence of the above systems; widespread light to moderate rain/snow with isolated thunderstorm, lightning & hail very likely over western Himalayan region on 04th and isolated rain/snow over the region on 05th February, 2021.
- Interaction between this Western Disturbance and lower level southeasterlies from the Bay of Bengal very likely to cause isolated to fairly widespread light to moderate rain/thundershowers with isolated thunderstorm, lightning & hail over Haryana, Chandigarh & Delhi, Uttar Pradesh on 04th & 05th; over Punjab and north Rajasthan on 04th and over parts of central and East India on 05th & 06th February, 2021.
- Dry northwesterly winds likely to prevail over northwest India from tomorrow onwards, causing fall in minimum temperature by 4-6°C over Northwest India during next 3-4 days. However, no cold day and cold wave conditions over northwest India during next 3-4 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 and Himachal Pradesh; at a few places over Punjab and Haryana, Chandigarh & Delhi and at isolated places over Uttarakhand, West Uttar Pradesh, Rajasthan, Andaman & Nicobar Islands and Tamil Nadu, Puducherry & Karaikal.
- Thunderstorm recorded (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Uttarakhand, Himachal Pradesh, Punjab and Haryana, Chandigarh & Delhi.

- Today, Cold Wave conditions are observed in isolated pockets over Chhattisgarh and Odisha.
- Fog (observed at 0830 hrs IST of today): Dense Fog in isolated pockets over East Rajasthan; Moderate Fog in isolated pockets over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, East Uttar Pradesh, Bihar, West Rajasthan, Gangetic West Bengal and Saurashtra & Kutch.
- Maximum Temperature Departures as on 03-02-2021: Maximum temperatures were markedly above normal (5.1°C or more) at many places over West Rajasthan; at a few places over East Rajasthan and Konkan & Goa and at isolated places over West Madhya Pradesh; appreciably above normal (3.1°C to 5.0°C) at most places over Himachal Pradesh and Gujarat State; at many places over Uttarakhand; at a few places over Coastal Karnataka and at isolated places over East Madhya Pradesh; above normal (1.6°C to 3.0°C) at most places over Punjab; at many places over Arunachal Pradesh, Haryana, Chandigarh & Delhi, Kerala & Mahe and Assam & Meghalaya; at a few places over Arunachal Pradesh and East Uttar Pradesh and at isolated places over Vidarbha and Coastal Andhra Pradesh & Yanam, Telangana and Tamilnadu, Puducherry & Karaikal. They were markedly below normal (-5.1°C or less) at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and at isolated places over Sub-Himalayan West Bengal & Sikkim; appreciably below normal (-3.1°C to -5.0°C) at a few places over Bihar; at isolated places over Gangetic West Bengal and North Interior Karnataka; below normal (-1.6°C to -3.0°C) at a few places over Madhya Maharashtra and Andaman & Nicobar Islands and at isolated places over Rayalaseema and South Interior Karnataka and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 36.1°C was reported at Karwar (Coastal Karnataka) over the country.
- Minimum Temperature Departures as on 04-02-2021: Minimum temperatures are markedly above normal (5.1°C or more) at many places over Punjab and Haryana, Chandigarh & Delhi and at isolated places over West Rajasthan; appreciably above normal (3.1°C to 5.0°C) at many places over West Madhya Pradesh; at a few places over Saurashtra & Kutch and at isolated places over East Madhya Pradesh and West Uttar Pradesh; above normal (1.6°C to 3.0°C) at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Andaman & Nicobar Islands and at isolated places over East Uttar Pradesh, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal. They are markedly below normal (-5.1°C or less) at isolated places over Gangetic West Bengal; appreciably below normal (-3.1°C to -5.0°C) at many places over Odisha;

below normal (-1.6°C to -3.0°C) at most places over Jharkhand and Bihar; at many places over Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim and Nagaland, Manipur, Mizoram & Tripura; at a few places over Telangana, Rayalaseema, Coastal Andhra Pradesh & Yanam and Madhya Maharashtra and at isolated places over Assam & Meghalaya, South Interior Karnataka, Marathwada and Lakshadweep and near normal over rest parts of the country. The lowest minimum temperature of 6.0°C reported at Gaya(Bihar) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 04 February (Day 1): Thunderstorm accompanied with lightning & hail at isolated places very likely over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh and north Rajasthan and with lightning at isolated places over Jammu & Kashmir, Ladakh, GilgitBaltistan & Muzaffarabad, East Uttar Pradesh and West Madhya Pradesh. Dense Fog in isolated pockets very likely over Assam & Meghalaya, Punjab, Haryana, Chandigarh & Delhi and Nagaland, Manipur, Mizoram & Tripura. Strong Winds (speed reaching 45-55 kmph gusting to 60 kmph) very likely over Gulf of Mannar and Comorin Area. Fishermen are advised not to venture into these areas.
- 05 February (Day 2): Thunderstorm accompanied with lightning & hail at isolated places very likely over Uttarakhand, East Madhya Pradesh and Chhattisgarh and with lightning at isolated places over Uttar Pradesh. Dense Fog in isolated pockets very likely over Assam & Meghalaya, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh and Nagaland, Manipur, Mizoram & Tripura.
- 06 February (Day 3): Thunderstorm accompanied with lightning at isolated places very likely over Bihar and Jharkhand. Dense Fog in isolated pockets very likely over Uttar Pradesh and Odisha.
- 07 February (Day 4): No weather warning.
- 08 February (Day 5): Strong Winds (speed reaching 45-55 kmph gusting to 60 kmph) likely over Gulf of Mannar and Comorin Area. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 04 to 12 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)

Assam

Weather condition:

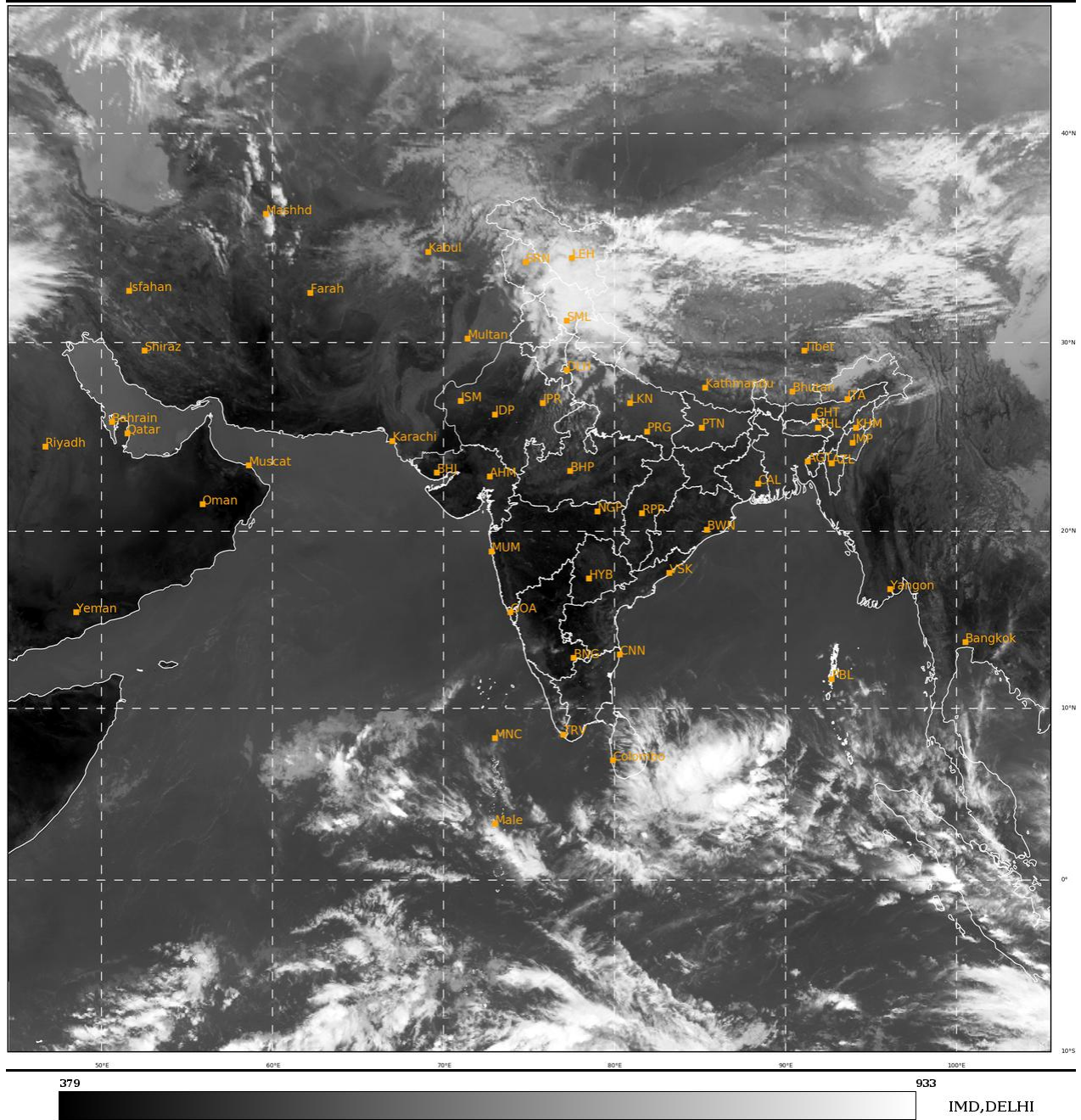
Weather during the last week was mainly clear. Daily average maximum temperature was 25.3°C which was 2.0 above normal and the average daily minimum temperature was 9.6°C which was 1.5 below normal for the week. Total BSSH was 46.0 hrs with an average of 7.7 hrs. The daily average evaporation rate was 1.4 mm/day and the average daily wind speed during the week 1.4 kmph. Daily average RH during morning and afternoon hour was 99.0% and 51.0% respectively.

Contingency measure:

- Boro rice (transplanting):- Farmers are advised to maintain standing water of 5±2 cm depth in the boro rice fields. Attack of rice borer may be observed in the boro rice crop due to congenial weather, so sparying of Flubendiamide 39.35SC (@1.23 ml per 10litre of water). To control red ant and other soil insects, Thimet 10G should be applied in the soil during earthing up @ 2-3 kg per bigha. Alternatively, application of Chlorantraniliprole 18.5% SC in the furrows is effective against the pest. Application of mustard oil cake @ 20 kg/bigha at the time of earthing up reduces red ant and white ant infestation to a great extent. Two foliar spray of 1% Urea (10gm in 1 lit. water) at flowering and pod filling stages is beneficial for better yield in rapeseed. For enhancing bee yield through increased pollination, 5 honey bee colonies/7.5 bigha cropped area is recommended for rapeseed-mustard crop.
- Okra (Land preparation):- Land preparation may be continued for okra cultivation. Collect seeds of recommended varieties like Pusa Sawani, Arka Anamika, Parvani Kranti or other local varieties for sowing from this week. About 2 kg seeds are required for sowing one bigha of land.
- Poultry birds (Avian Cholera):- To protect the birds from cold install gunny bags or plastic sheath curtains on the side walls of shed to reduce wind chilling effect. Ventilation should not be restricted.
- Fishery (various):- As there is a gradual drop in the water level in pond during this post-monsoon season, the fishery owners may go for partial harvesting of marketable sized fish (>700gm). Measures should be taken to prevent Epizootic Ulcerative Syndrome (EUS) in fish by following dip treatment of fishes in 500 ppm potassium permanganate solution

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

04-02-2021/(0800 to 0826) GMT
 04-02-2021/(1330 to 1356) IST



**Figure: 1. Latest available satellite picture as on 04 February 2021 at 1356 Hrs (IST).
 (Source: IMD).**

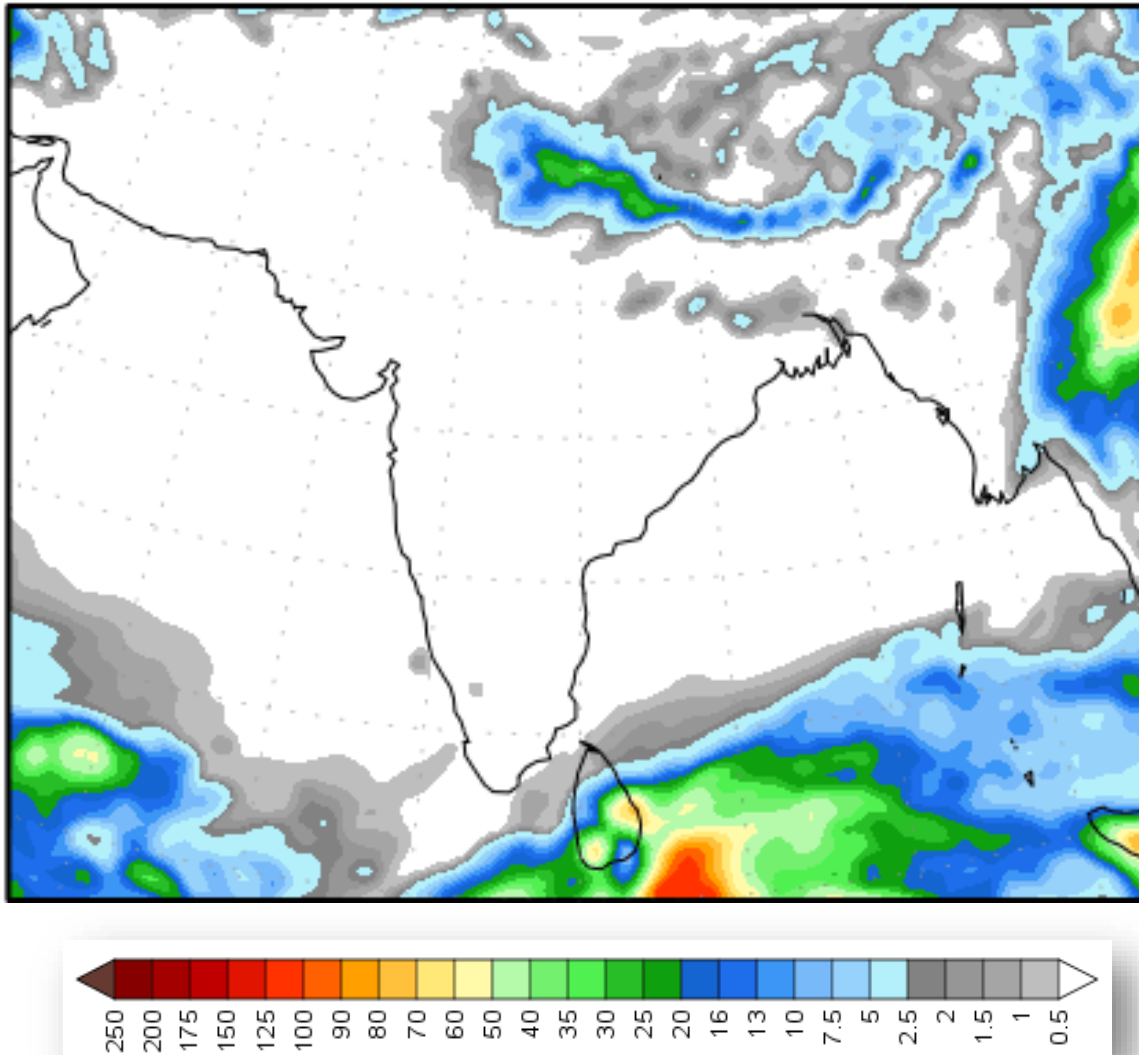


Figure:2.

Precipitation forecast for 04 to 12 February 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.