

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 05 February 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Western Disturbance as a cyclonic circulation lies over Jammu & Kashmir and neighbourhood between 5.8 km & 7.6 km above mean sea level. Under its influence, isolated rainfall/snowfall very likely over the Western Himalayan Region during next 24 hours and significant reduction in rainfall/snowfall thereafter.
- Under the influence of a cyclonic circulation over northeast Madhya Pradesh and neighbourhood which is likely to shift eastwards during next 2 days and lower level southeasterlies from the Bay of Bengal supporting moisture incursion to the region, isolated to scattered light to moderate rain/thundershowers with isolated thunderstorm/hailstorm & lightning very likely over East Uttar Pradesh and East Madhya Pradesh today, the 05th; north Chhattisgarh and Bihar on 05th & 06th; Jharkhand, West Bengal & Sikkim on 06th; Assam & Meghalaya and Arunachal Pradesh on 06th & 07th and Nagaland, Manipur, Mizoram & Tripura 07th February, 2021.
- Cold & Dry northerly/northwesterly winds have set in over Punjab, Haryana and north Rajasthan and have caused fall in minimum temperatures by 4-7°C in last 24 hours in these sub-divisions.
- Dense fog in isolated pockets likely over north Rajasthan in the morning hours of next 2 days; Punjab, Haryana, Chandigarh & Delhi the morning hours of next 3 days and Uttar Pradesh the morning hours of next 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 today): at most places over Uttarakhand; at many places over Himachal Pradesh, Haryana, Chandigarh & Delhi and West Uttar Pradesh; at a few places over Punjab and at isolated places over Odisha, Jharkhand, West Madhya Pradesh, Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, East Uttar Pradesh and East Rajasthan.

- Thunderstorm recorded (from 0830 hours IST of yesterday to 0830 hours IST today): at isolated places over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Madhya Pradesh and Uttar Pradesh.
- Fog (observed at 0830 hrs IST of today): Very Dense Fog in isolated pockets over West Rajasthan; Dense Fog in isolated pockets over Haryana and Shallow to Moderate Fog in isolated pockets over Himachal Pradesh, Uttarakhand, Delhi, East Uttar Pradesh and Bihar.
- Maximum Temperature Departures as on 04-02-2021: Maximum temperatures were markedly above normal (5.1°C or more) at isolated places over East Madhya Pradesh, Assam & Meghalaya and Arunachal Pradesh; appreciably above normal (3.1°C to 5.0°C) at many places over East Uttar Pradesh, West Madhya Pradesh, East Rajasthan and Jharkhand; at a few places over Chhattisgarh and SubHimalayan West Bengal & Sikkim; at isolated places over Vidarbha and Gujarat region; above normal (1.6°C to 3.0°C) at many places over Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe and Konkan & Goa; at a few places over West Rajasthan, Saurashtra & Kutch, West Uttar Pradesh, Odisha and Coastal Karnataka; at isolated places over Gangetic West Bengal and Lakshadweep. They were markedly below normal (-5.1°C or less) at many places over Himachal Pradesh; at isolated places over Haryana, Chandigarh & Delhi; appreciably below normal (-3.1°C to -5.0°C) at isolated places over Punjab and Uttarakhand; below normal (-1.6°C to -3.0°C) at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and at isolated places over Andaman & Nicobar Islands and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 36.4°C was reported at Karwar (Coastal Karnataka) over the country.
- Minimum Temperature Departures as on 05-02-2021: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at isolated places over East Madhya Pradesh and Andaman & Nicobar Islands; above normal (1.6°C to 3.0°C) at many places over West Madhya Pradesh; at a few places over Coastal Karnataka; at isolated places over East Rajasthan. They are appreciably below normal (- 3.1°C to -5.0°C) at many places over Gangetic West Bengal, Odisha and Vidarbha; at a few places over Rayalaseema; at isolated places over Haryana, Chandigarh & Delhi, Jharkhand, Telangana and Coastal Andhra Pradesh & Yanam; below normal (- 1.6°C to -3.0°C) at most places over South Interior Karnataka; at many places over Bihar; at a few places over Himachal Pradesh, Uttarakhand, SubHimalayan West Bengal & Sikkim and Nagaland, Manipur, Mizoram & Tripura; at isolated places over Punjab, Assam & Meghalaya and Tamilnadu, Puducherry & Karaikal and

near normal over rest parts of the country. The lowest minimum temperature of 4.4°C reported at Hissar (Haryana) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 05 February (Day 1): Thunderstorm accompanied with lightning & hail at isolated places very likely over Uttarakhand and Bihar and with lightning at isolated places over East Uttar Pradesh, East Madhya Pradesh and Chhattisgarh. Dense Fog in isolated pockets very likely over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan and north Madhya Pradesh. Strong Winds (speed reaching 40-50 kmph) very likely over Gulf of Mannar and Comorin Area. Fishermen are advised not to venture into these areas.
- 06 February (Day 2): Thunderstorm accompanied with lightning & hail at isolated places very likely over Bihar, Jharkhand, West Bengal & Sikkim and Arunachal Pradesh and with lightning at isolated places over Chhattisgarh and Assam & Meghalaya. Dense Fog in isolated pockets very likely over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh and Rajasthan. Strong Winds (speed reaching 40-50 kmph) very likely over Gulf of Mannar and Comorin Area. Fishermen are advised not to venture into these areas.
- 07 February (Day 3): Thunderstorm accompanied with lightning at isolated places very likely over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Dense Fog in isolated pockets very likely over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh and Bihar. Cold Wave conditions in isolated pockets very likely over Odisha. Strong Winds (speed reaching 45-55 kmph) very likely over Gulf of Mannar and Comorin Area. Fishermen are advised not to venture into these areas.
- 08 February (Day 4): Dense Fog in isolated pockets likely over Uttar Pradesh and Bihar. Cold Wave conditions in isolated pockets likely over Odisha. Strong Winds (speed reaching 45-55 kmph) likely over Gulf of Mannar and Comorin Area. Fishermen are advised not to venture into these areas.
- 09 February (Day 5): Dense Fog in isolated pockets likely over Bihar. Cold Wave conditions in isolated pockets likely over Odisha. Strong Winds (speed reaching 45-55 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., 05 to 13 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)

Kerala

Weather condition:

In Vellanikkara, the maximum temperature ranges from 32.7 to 34.2 Deg C, minimum temperature ranges from 18.9 to 23.2 Deg C. Morning relative humidity ranges from 050% to 080% and afternoon relative humidity ranges from 033% to 042%. Wind speed ranges from 4.3 to 10.1 km/h. Evaporation ranges from 4.4 to 7.4 mm. Sunshine hours range from 8.0 to 10.1 hours. 5cm morning soil temperature ranges from 24.9 to 26.8 Deg C and afternoon soil temperature ranges from 37.1 to 38.2 Deg C.

Contingency measure:

- Rice(Mundakan)- Dough stage- Bacterial Leaf Blight- As a prophylactic measure, spray 20 gram Pseudomonas in one litre of water.To control the spread of Bacterial Leaf blight in paddy, spray 6 g of Streptocycline in 30 litre of water. Blast -To control Blast disease in rice, spray 4 gram of Nativo (Trifloxystrobin + Tebuconazole) mixture in ten litres of water.
- Banana- Boron deficiency- Boron deficiency is seen more during dry weather. Spray one gram borax per one litre of water.
- Cucurbitaceous vegetables- Fruit fly- Remove and destroy affected and decayed fruits. Use special pheromone traps like cuelure (6 no./acre) or Thulasi/fruit traps for vegetable fruit fly. If the attack is not reduced, spray 2 ml Cyantraniliprole in one litre of water
- Animal Husbandry- Ensure sufficient supply of clean drinking water to the animals. Take measures for preventing mosquito breeding in the premises.

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

05-02-2021/(0800 to 0827) GMT
05-02-2021/(1330 to 1357) IST

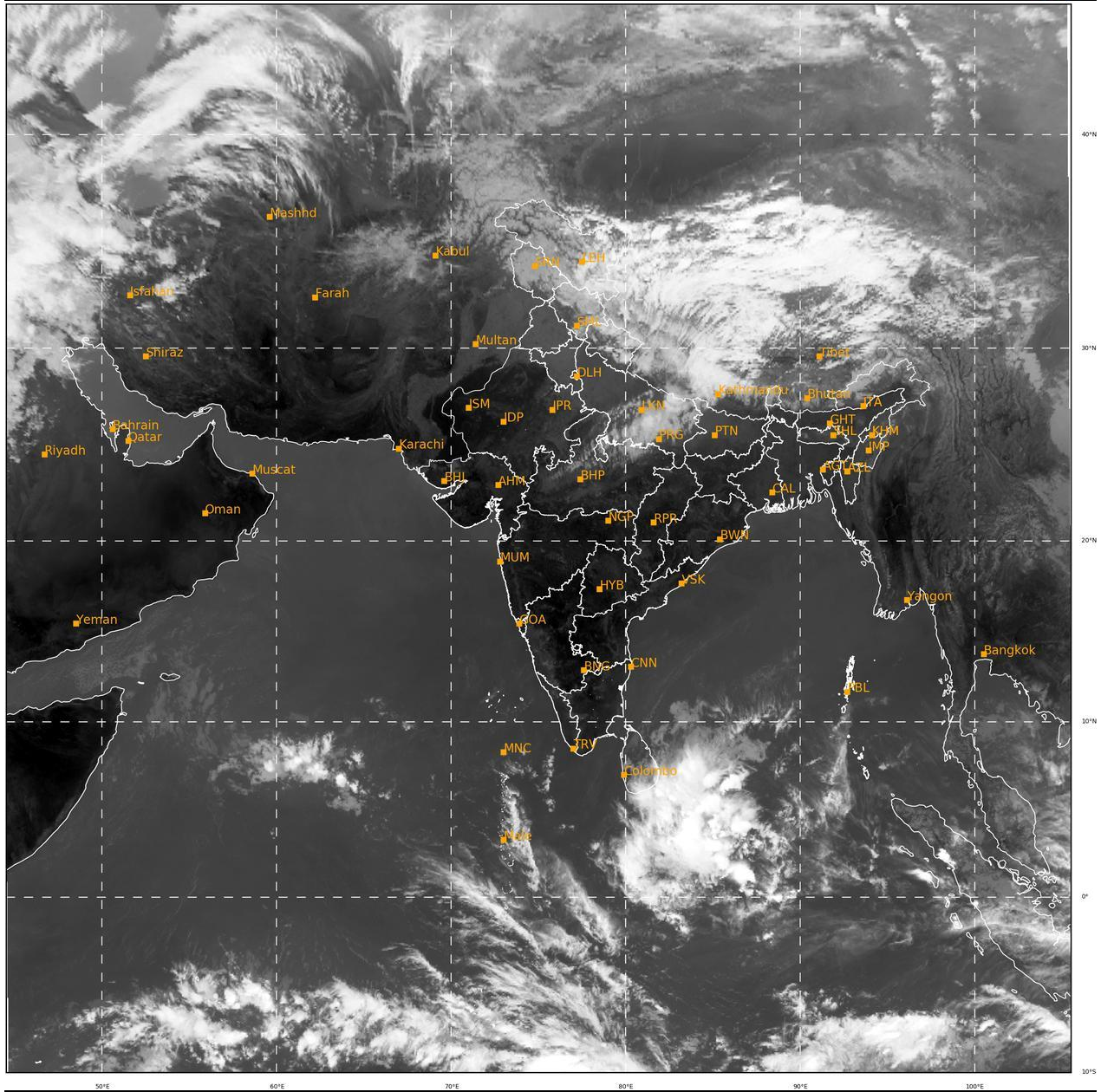


Figure: 1. Latest available satellite picture as on 05 February 2021 at 1357 Hrs (IST).
(Source: IMD).

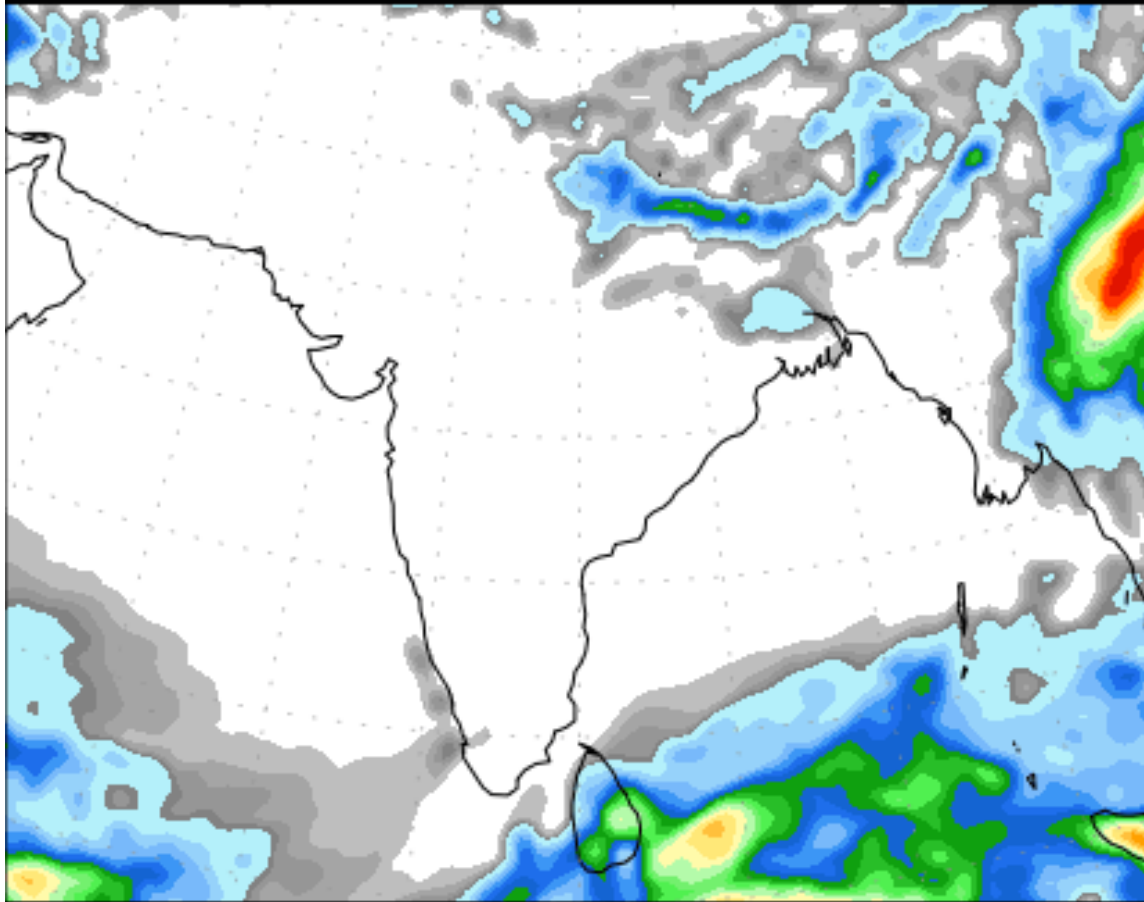


Figure:2. Precipitation forecast for 05 to 13 February 2021 (Source: NOAA NCEP).

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