

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 06 February 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The remnant of the Western Disturbance as a trough in mid & upper tropospheric westerlies with its axis at 5.8 km above mean sea level runs roughly along longitude 82°E to the north of latitude 24°N and is likely to move eastwards during 24 hours.
- A cyclonic circulation lies over south Assam & neighbourhood in lower tropospheric levels.
- Another cyclonic circulation lies over north Chhattisgarh & neighbourhood in lower tropospheric levels.
- Under the influence of the above systems; isolated to scattered light to moderate rain/thundershowers with isolated thunderstorm very likely over Bihar, Jharkhand, West Bengal & Sikkim and Nagaland, Manipur, Mizoram & Tripura on 06th; Assam & Meghalaya and Arunachal Pradesh on 06th & 07th February, 2021.
- Dense Fog in isolated pockets likely over north Madhya Pradesh in the morning hours of 07th; Uttar Pradesh and Bihar in the morning hours of 08th & 09th and Assam & Meghalaya in the morning hours of 09th & 10th 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 today): at a few places over Bihar, East Uttar Pradesh and Uttarakhand and at isolated places over Sub-Himalayan West Bengal & Sikkim, Jharkhand, West Uttar Pradesh, Himachal Pradesh, Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and East Madhya Pradesh.
- Thunderstorm/Hailstorm observed (from 0830 hours IST of yesterday to 0830 hours IST today): Hailstorm at isolated places over Uttarakhand and Thunderstorm at isolated places over East Madhya Pradesh.

- Fog observed (at 0830 hours IST of today): Very Dense Fog in isolated pockets over Haryana, Chandigarh & Delhi and West Madhya Pradesh and Dense Fog in isolated pockets over East Uttar Pradesh and East Madhya Pradesh.
- Maximum Temperature Departures as on 05-02-2021: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Assam & Meghalaya, Arunachal Pradesh and Jharkhand; at isolated places over Sub-Himalayan West Bengal & Sikkim; above normal (1.6°C to 3.0°C) at most places over Nagaland, Manipur, Mizoram & Tripura; at many places over Gangetic West Bengal, Chhattisgarh, Bihar and Coastal Karnataka; at isolated places over Odisha, East Madhya Pradesh, Vidarbha, Saurashtra & Kutch and Kerala & Mahe. They were appreciably below normal (-3.1°C to -5.0°C) at a few places over Himachal Pradesh and Haryana, Chandigarh & Delhi; at isolated places over East Uttar Pradesh; below normal (-1.6°C to -3.0°C) at most places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; at many places over East Rajasthan and West Madhya Pradesh; at a few places over Madhya Maharashtra and Tamil Nadu, Puducherry & Karaikal and at isolated places over Andaman & Nicobar Islands and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 35.1°C was reported at Karwar (Coastal Karnataka) over the country.
- Minimum Temperature Departures as on 06-02-2021: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at isolated places over East Madhya Pradesh, Jharkhand and Andaman & Nicobar Islands; above normal (1.6°C to 3.0°C) at many places over Lakshadweep; at a few places over Sub-Himalayan West Bengal & Sikkim; at isolated places over East Uttar Pradesh, West Rajasthan and Kerala & Mahe. They are appreciably below normal (-3.1°C to -5.0°C) at many places over Odisha; at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh and Coastal Andhra Pradesh & Yanam; below normal (-1.6°C to -3.0°C) at most places over Uttarakhand, Rayalaseema and South Interior Karnataka; at a few places over Haryana, Chandigarh & Delhi, West Madhya Pradesh and Tamil Nadu, Puducherry & Karaikal; at isolated places over East Rajasthan, Saurashtra & Kutch, Telangana and Coastal & South Interior Karnataka and near normal over rest parts of the country. The lowest minimum temperature of 4.9°C reported at Churu (West Rajasthan) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 06 February (Day 1): Thunderstorm accompanied with lightning & hail at isolated places very likely over Arunachal Pradesh and with lightning at isolated places

over Bihar, Jharkhand, West Bengal & Sikkim, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Dense Fog in isolated pockets very likely over Madhya Pradesh.

- 07 February (Day 2): Thunderstorm accompanied with lightning at isolated places very likely over Arunachal Pradesh and Assam & Meghalaya. Dense Fog in isolated pockets very likely over north Uttar Pradesh and Bihar. Cold Wave conditions in isolated pockets very likely over north Madhya Pradesh, Jharkhand and 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 3): Dense Fog in isolated pockets very likely over north Uttar Pradesh, Bihar and Assam & Meghalaya. Cold Wave conditions in isolated pockets very likely over north Madhya Pradesh, Jharkhand and Odisha. Strong Winds (speed reaching 45-55 kmph) very likely over Gulf of Mannar, Comorin Area and Southwest Bay of Bengal. Fishermen are advised not to venture into these areas.
- 09 February (Day 4): Dense Fog in isolated pockets likely over Assam & Meghalaya. Cold Wave conditions in isolated pockets 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.
- 10 February (Day 5): No weather warning.
- The weather outlook for seven days i.e., 06 to 14 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)

Gujarat

Weather condition:

The actual maximum temperature was 0.4 °C and the actual minimum temperature was 0.8 °C lower as compare to its normals. Total BSS was 68.5 hrs. with an average of 9.8 hrs. The daily average evaporation and wind speed was 3.5 mm and 2.7 km/hr respectively. The daily average RH during morning and afternoon was 82.6 % and 30.7 % respectively.

Contingency measure:

- Wheat : Booting/Penicile initiation : Termite : To control termite apply chlorpyriphos 20 EC 2 to 2.5 liter/ha with irrigation water. Stem Borer : If wheat stem borer infestation observed spray carbaryl 50% WP 40 gm or Quinalphos 25 EC 20 ml spray in 10 liter water.
- Mustard : Pod development/Maturity : Apply irrigation according to soil type and climatic condition. Aphid: Apply 500 gm (5% arc) neem seed powder or 20 ml (1 EC) to 40 ml (0.15 EC) neem based readymade solution in 10 liter water in evening time. For control of powdery mildew of mustard, spray sulfur 80 WP 25 g or Dinocap 48 EC 5 ml or Hexaconazole 5 EC 5 ml per 10 liter water. Spray should be done after 15 days interval according to intensity of disease.
- 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 : Carried out topping operation at flowering initiation stage. De-suckering should be done regularly.
- Gram: vegetative: inter-culturing and Hand weeding should be done. Apply irrigation, if required. Apply yellow sticky trap 30/hectare. Apply neem based insecticide like Neemastra 3 to 5 % or Azadirachtin 40 ml/10 liter water.
- 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: Vegetative: Early blight: - Three foliar spray of Mencozeb 75gm WP 20 gm in 10 lit of water at 10 days interval starting from vegetative stage. Application of light irrigation in furrow and flatbed sown field.
- Cattle: Keep animal shed hygienic and clean to avoid flies and mosquitoes. Disease (like, Anthraces, milk fever and Brucellosis) infected animals to regular check-up and regular vaccination for the animal.

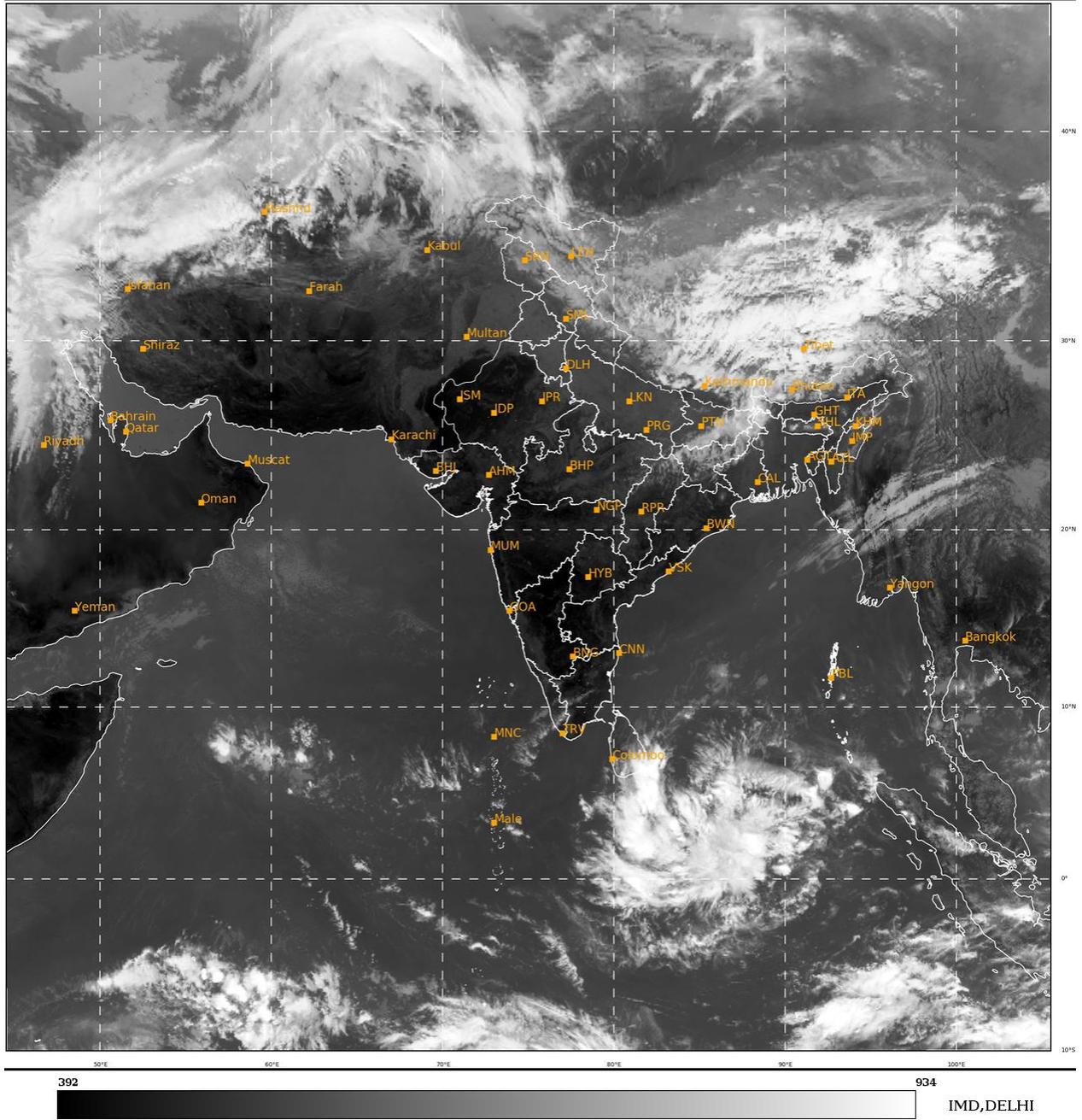


Figure: 1. Latest available satellite picture as on 06 February 2021 at 1357 Hrs (IST).
(Source: IMD).

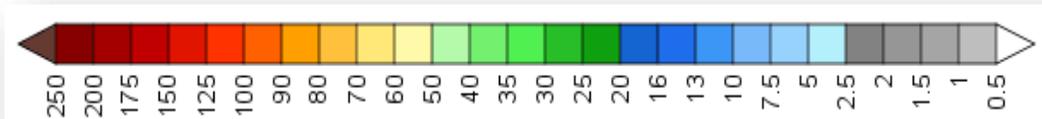
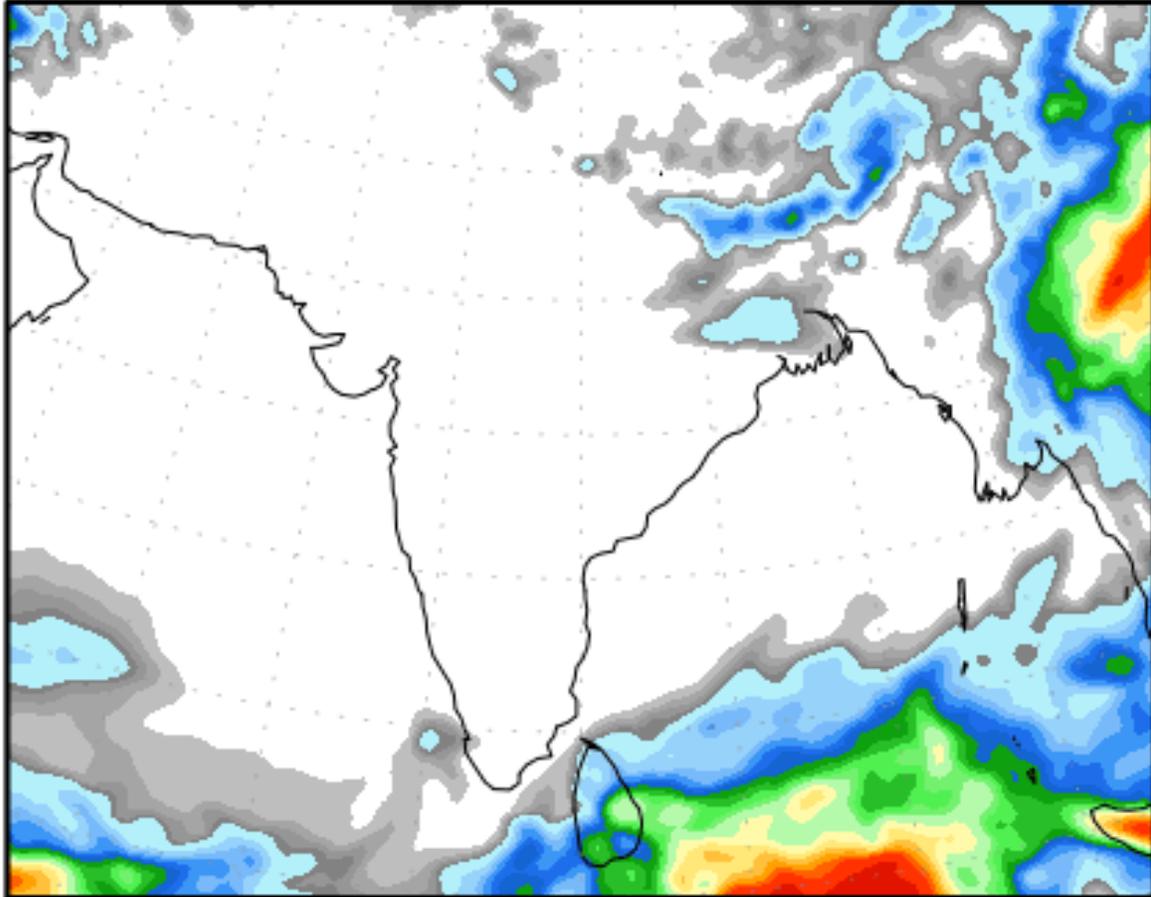


Figure:2. Precipitation forecast for 06 to 14 February 2021 (Source: NOAA NCEP).

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.