

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 06 February 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The feeble Western Disturbance as a trough in mid & upper tropospheric westerlies with its axis at 5.8 km above means sea level now runs roughly along Long. 71°E to the north of Lat. 30°N. Under its influence light isolated rain/snow likely over the western Himalayan region during the next 48 hours.
- Due to confluence between easterly winds from the Bay of Bengal and westerly winds and cyclonic circulation over north Coastal Andhra Pradesh & adjoining interior Odisha at lower tropospheric levels, scattered to fairly widespread rainfall/thundershowers over Vidarbha, Chhattisgarh. Gangetic West Bengal and Odisha during next 3 days.
- Thunderstorm accompanied by hail/lightning very likely at isolated places over Vidarbha, Chhattisgarh, and Odisha for the next 2-3 days.
- Cold wave to severe cold wave conditions very likely in isolated parts over Punjab and Cold wave conditions in isolated parts over Haryana and north Rajasthan for the next 3 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 a few places over Odisha and at isolated places over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Kerala & Mahe, and Tamil Nadu, Puducherry & Karaikal
- Cold wave conditions are observed in isolated pockets over Punjab and Haryana, Chandigarh & Delhi.
- Fog observed at 0830 hours IST of today: Dense to very dense fog in isolated parts over Uttarakhand, dense fog in isolated parts over Chhattisgarh and moderate fog in isolated parts over Himachal Pradesh and Punjab.
- Visibility recorded at 0830 hours IST of today (in meters): Pantnagar- 25 m; Raipur -50 m; Amritsar, Sundernagar, Solan Rajnandgaon, and Jagdalpur - 200 m each.

- Maximum Temperature Departures as on 05-02-2020: Maximum temperatures were above normal (1.6°C to 3.0°C) at many places over Jammu & Kashmir; at a few places over Kerala & Mahe and Lakshadweep and at an isolated place over Himachal Pradesh and Tamilnadu, Puducherry & Karaikal. They were markedly below normal (-5.1°C or less) at isolated places over Odisha and Chhattisgarh; appreciably below normal (-3.1°C to -5.0°C) at a few places over East Madhya Pradesh and at isolated places over Gangetic West Bengal and West Rajasthan; below normal (-1.6°C to -3.0°C) at many places over Punjab, Haryana, Chandigarh & Delhi, Vidarbha, and Sub-Himalayan West Bengal; at a few places over East Rajasthan, West Madhya Pradesh, and Andaman & Nicobar Islands and at isolated places over Bihar and Uttar Pradesh and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 36.0°C was recorded at Punalur(Kerala & Mahe).
- Minimum Temperature Departures as on 06-02-2020: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at isolated places over Assam & Meghalaya, West Uttar Pradesh, West Madhya Pradesh, and Saurashtra & Kutch; above normal (1.6°C to 3.0°C) at many places over Madhya Maharashtra and North Interior Karnataka; at a few places over Vidarbha, Marathwada, South Interior Karnataka, Chhattisgarh, Kerala & Mahe, and Lakshadweep and at isolated places over Sub-Himalayan West Bengal & Sikkim, Rajasthan, Gujarat region, East Madhya Pradesh, Odisha, Rayalaseema, Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal. They are below normal (-1.6°C to -3.0°C) at most places over Haryana, Chandigarh & Delhi; at many places over Himachal Pradesh and Bihar; at a few places over Jammu & Kashmir and Andaman Nicobar Islands and at isolated places over Uttarakhand, Punjab, and Uttar Pradesh and near normal over rest parts of the country. The lowest minimum temperature of 2.3°C recorded at Amritsar (Punjab) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 06 February (Day 1): Dense fog very likely in isolated parts over Uttarakhand, Punjab, Haryana, and Odisha. Thunderstorm accompanied by lightning very likely at isolated places over Vidarbha, Chhattisgarh, and Odisha. Cold wave to severe cold wave conditions very likely in isolated parts over Punjab and Cold wave conditions in isolated parts over Haryana, Chandigarh & Delhi and north Rajasthan.

- 07 February (Day 2): Dense fog very likely in isolated parts over Uttarakhand, Punjab, and Haryana. Thunderstorm accompanied with gusty winds (speed reaching 30-40 kmph), hail & lightning very likely at isolated places over Odisha; with hail & lightning at isolated places over Chhattisgarh and with lightning over Vidarbha and Gangetic West Bengal. Cold wave to severe cold wave conditions very likely in isolated parts over Punjab and Cold wave conditions in isolated parts over Haryana, Chandigarh & Delhi and north Rajasthan. Heavy rain is very likely at isolated places over Odisha.
- 08 February (Day 3): Dense fog very likely in isolated parts over Punjab and Haryana. Thunderstorm accompanied by gusty winds & lightning very likely at isolated places over Odisha and with lightning over Chhattisgarh, Coastal Andhra Pradesh & Yanam and Telangana. Cold wave to severe cold wave conditions very likely in isolated parts over Punjab and Cold wave conditions in isolated parts over Haryana, Chandigarh & Delhi and north Rajasthan.
- 09 February (Day 4): Dense fog likely in isolated parts over Odisha. Thunderstorm accompanied by lightning likely at isolated places over Nagaland, Manipur, Mizoram & Tripura.
- 10 February (Day 5): Dense fog likely in isolated parts over Odisha. Thunderstorm accompanied with gusty winds (speed reaching 30-40 kmph) & lightning likely at isolated places over Nagaland, Manipur, Mizoram & Tripura.
- The weather outlook for seven days i.e., 06 to 14 Feb 2020 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)

Madhya Pradesh

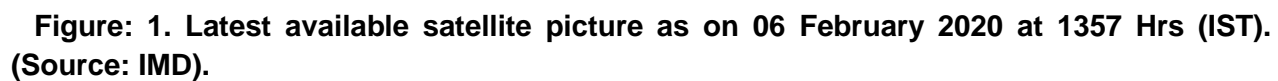
Weather condition:

High Tmax.: 29 °C at Khargone, Sidhi and Mandla districts - Low Tmin: 6 °C at Betul district - High Rainfall: 10 mm at Rewa district - Day temp.: 2 °C below normal over the state - Night Temp.: 2 °C above normal over the state - Occurrence of cold day at many places

Contingency measure:

- General Advice: Light rainfall is likely to occur in the eastern part of the state. Keep proper drainage in all crops except rice.

- Soybean: In areas where there are excessive rains, do not let the standing water in the soybean field. To control mosaic in soybean uproot and burn affected plants and spray imidacloprid (17.8 SL) @ 300 ml or thiamethoxam 250 gm dissolve in 500 liters of water per hectare to check whitefly. At places where the girdle beetle and Bihar hairy caterpillar has started, solution of trochophore 40 EC @ 800 ML or profenophos 1.0 liters or coragen @150 ml per hectare in 500 liters of water, should be sprayed. For more information contact the nearest Krishi Vigyan Kendra.
- Rice: Use cono weeder to control weeds standing water. To conserve rainwater, make bunds around the fields of rice.
- Pigeonpea: Control the weeds in the field by the hand hoe, for trassy wads whip super or Targa super can be used. Arrangements for drainage as required in fields.
- Sugarcane: Sugarcane crop tied the plants with each other to avoid lodging.
- Fruit tree: Clean the gardens and remove the weed. Make basins for lemon and guava and use compost and fertilizer as per recommendation.
- Vegetables: Use of systemic insecticides for control of fruit borer in eggplant, tomatoes, and okra. Drain the turmeric and ginger fields properly. Preparation for nursery for early season rabi vegetables. Spray of propinaphos @ of 2 ML per liter water to control the insect.
- Animal Husbandry & Poultry: Keep animals and chickens in the shed and arrange for pure water. Regular clean water for milch cows and save from mosquitoes and for various diseases.



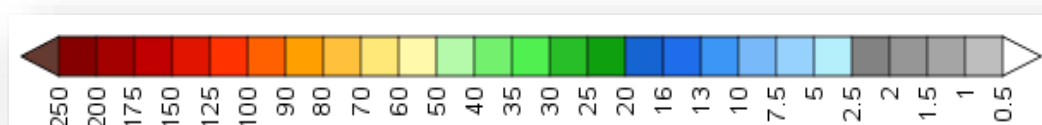
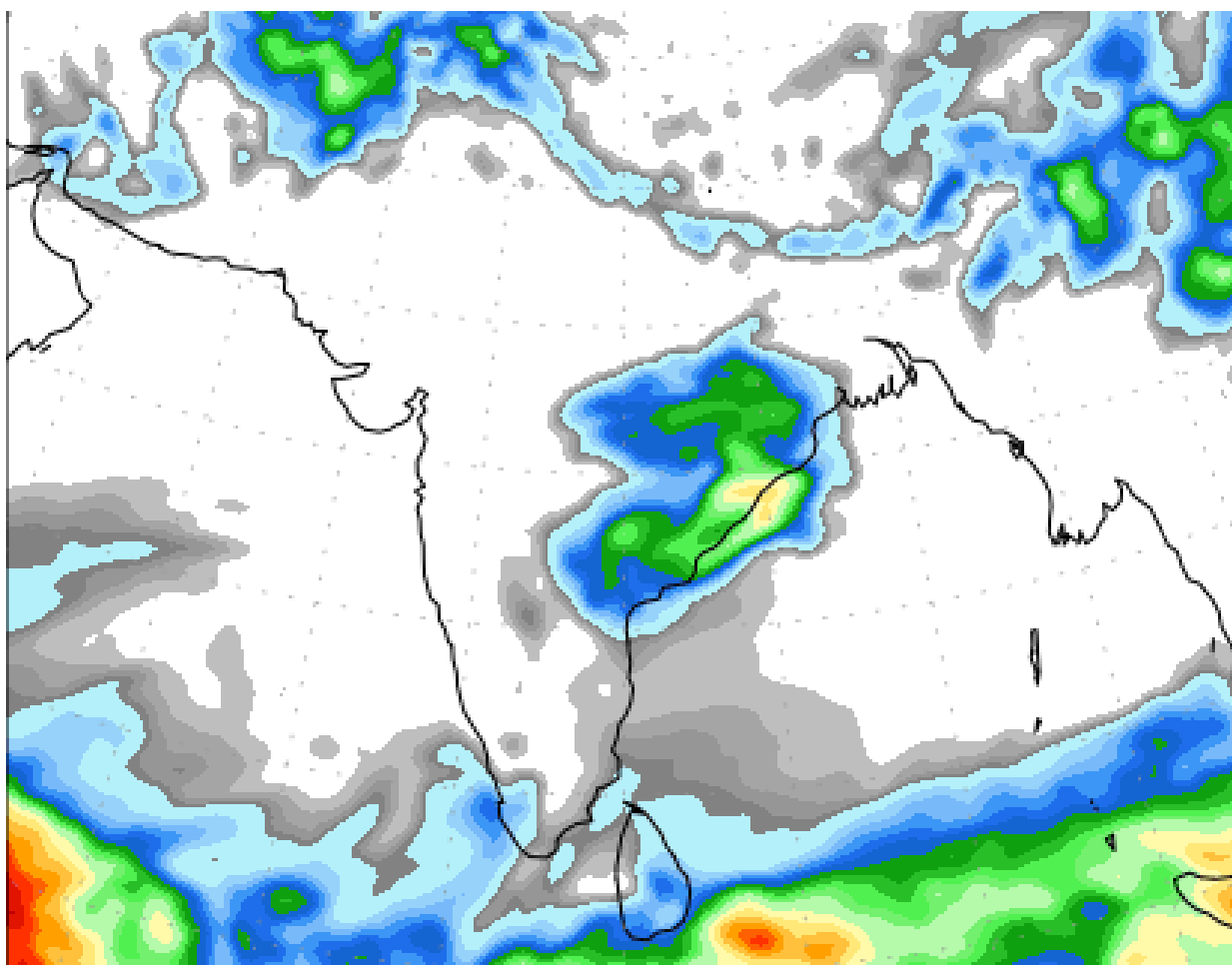


Figure:2. Precipitation forecast for 06 to 14 Feb 2020 (Source: NOAA NCEP).

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