

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 04 February 2019

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- An intense Western Disturbance as a trough in mid & upper level westerlies is approaching the Indian region from the west. Under its influence, an induced cyclonic circulation would form over West Rajasthan by tomorrow and would move over to Punjab & adjoining Haryana by 8th. In association with the system, there would be high moisture feeding from Arabian Sea over northwest India specifically over Western Himalayan Region (WHR) (Jammu & Kashmir, Himachal Pradesh and Uttarakhand) mainly during 6th to 8th February, 2019. Strong wind convergence at mid & upper tropospheric levels over WHR and wind confluence at lower levels over plains of northwest India would also occur during the same period.
- Widespread rain/snow with isolated heavy to very heavy falls are very likely over Jammu & Kashmir and Himachal Pradesh on 6th & 7th February and over Uttarakhand on 7th February. Widespread rainfall with isolated heavy falls are also likely over the northern parts of Punjab, Haryana, Chandigarh and West Uttar Pradesh on 7th February. Thunderstorms accompanied with hailstorms at isolated places are likely over western Himalayan region, Punjab, Haryana, Chandigarh & Delhi and West Uttar Pradesh on 6th & 7th; over north Rajasthan on 6th; over East Uttar Pradesh and north Madhya Pradesh on 7th and over north Chhattisgarh, Jharkhand, Bihar and Sub-Himalayan West Bengal & Sikkim on 8th February.
- Dense to very dense fog prevailed at most places over northwest India today morning. Dense to very dense fog at a few places in the morning hours is very likely to continue over Uttar Pradesh and at isolated places over Haryana, Chandigarh & Delhi for one more day. Fog conditions are likely to abate thereafter with the likely occurrence of rain/thundershowers over these regions from 6th morning.
- The images showing the latest satellite picture in figure. 1.

Main Weather Observations (IMD)

- Rain/thundershowers observed (from 0830 hrs IST of yesterday to 0830 hrs IST of today). Yesterday, Cold day conditions were observed at isolated places over West

Uttar Pradesh. Dense to very dense fog observed at most places over Punjab, Haryana, Chandigarh & Delhi and West Uttar Pradesh; a few places over

- East Uttar Pradesh; at isolated places over West Madhya Pradesh; Moderate fog at isolated places over Assam & Meghalaya, West Rajasthan and East Madhya Pradesh. The visibility observed at 0830 hours IST of today: Chandigarh, Agra and Gwalior-0 M each; Ludhiana, Patiala, Ambala, Karnal, Hissar and Pantnagar-25 M each; Delhi (PLM), Bareilly, Delhi (Ridge), Delhi (Ayanagar), Delhi (SFD), Bareilly, Amritsar, Meerut, Lucknow and Sultanpur-50 M each; Bahraich, Gorakhpur and Alwar-200 M each; Varanasi, Khajuraho and Majbat-500 M each.
- Maximum temperature departures as on 03.02.2019: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at most places over Jharkhand and Arunachal Pradesh; at many places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Himachal Pradesh; at a few places over East Madhya Pradesh, Bihar and West Bengal & Sikkim; above normal (1.6°C to 3.0°C) at many places over Jammu & Kashmir, Uttarakhand, Coastal Karnataka, Tamilnadu & Puducherry, Kerala and Lakshadweep; at a few places over Gujarat State, Konkan & Goa and West Madhya Pradesh. They were appreciably below normal (-3.1°C to -5.0°C) at most places over West Uttar Pradesh; at many places over Haryana, Chandigarh & Delhi; below normal (-1.6°C to -3.0°C) at many places over East Uttar Pradesh, Rajasthan and Madhya Maharashtra; at a few places over Andaman & Nicobar Islands; at isolated places over Marathawada and Telangana and near normal over rest parts of the country.
- Yesterday, the highest maximum temperatures of 35.6°C was recorded at Karwar (Coastal Karnataka) & Punalur (Kerala) over the plains of the country.
- Minimum temperature departures as on 04.02.2019: Minimum temperatures are below normal (-1.6°C to -3.0°C) at most places over Odisha; at many places over Haryana, Chandigarh & Delhi, Bihar and Vidarbha; at a few places over Rajasthan, Gangetic West Bengal and Nagaland, Manipur, Manipur & Tripura; at isolated places over Jammu & Kashmir, East Madhya Pradesh, Telangana and Coastal Andhra Pradesh. They are above normal (1.6°C to 3.0°C) most places over Arunachal Pradesh; at many places over Gujarat State, West Madhya Pradesh, Madhya Maharashtra, Marathawada and Andaman & Nicobar Islands; at a few places over Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Konkan & Goa, Tamilnadu & Puducherry and Rayalaseema; at isolated places over Kerala and near normal over rest parts of the country.
- The lowest minimum temperature of 2.6°C recorded at Narnaul (Haryana) over the plains of the country.

Weather Warning during next 5 days (IMD)

- 04 February (Day 1): Dense fog at a few places with very dense fog at isolated places very likely over Uttar Pradesh and dense to very dense fog at isolated places very likely over Haryana, Chandigarh & Delhi. Cold day conditions at isolated places very likely over Uttar Pradesh.
- 05 February (Day 2): Thunderstorm accompanied with hailstorm at isolated places very likely over Jammu division of Jammu & Kashmir and Himachal Pradesh.
- 06 February (Day 3): Heavy to very heavy rain/snow very likely at isolated places over Jammu & Kashmir and heavy rain/snow at isolated places over Himachal Pradesh. Thunderstorm accompanied with hailstorm at isolated places very likely over Jammu division of Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, north Rajasthan and West Uttar Pradesh.
- 07 February (Day 4): Heavy to very heavy rain/snow likely at isolated places over Jammu & Kashmir, Himachal Pradesh and Uttarakhand. Heavy rain/thundershowers at isolated places likely over Punjab, Haryana, Chandigarh and West Uttar Pradesh. Thunderstorm accompanied with hailstorm at isolated places likely over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh and north Madhya Pradesh.
- 08 February (Day 5): Thunderstorm accompanied with hailstorm at isolated places likely over Sub-Himalayan West Bengal & Sikkim, Bihar, Jharkhand and north Chhattisgarh.
- The weather outlook for the period of seven days *i.e* 04 to 11 February 2019 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thundershower may occur over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab and Nicobar Islands. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

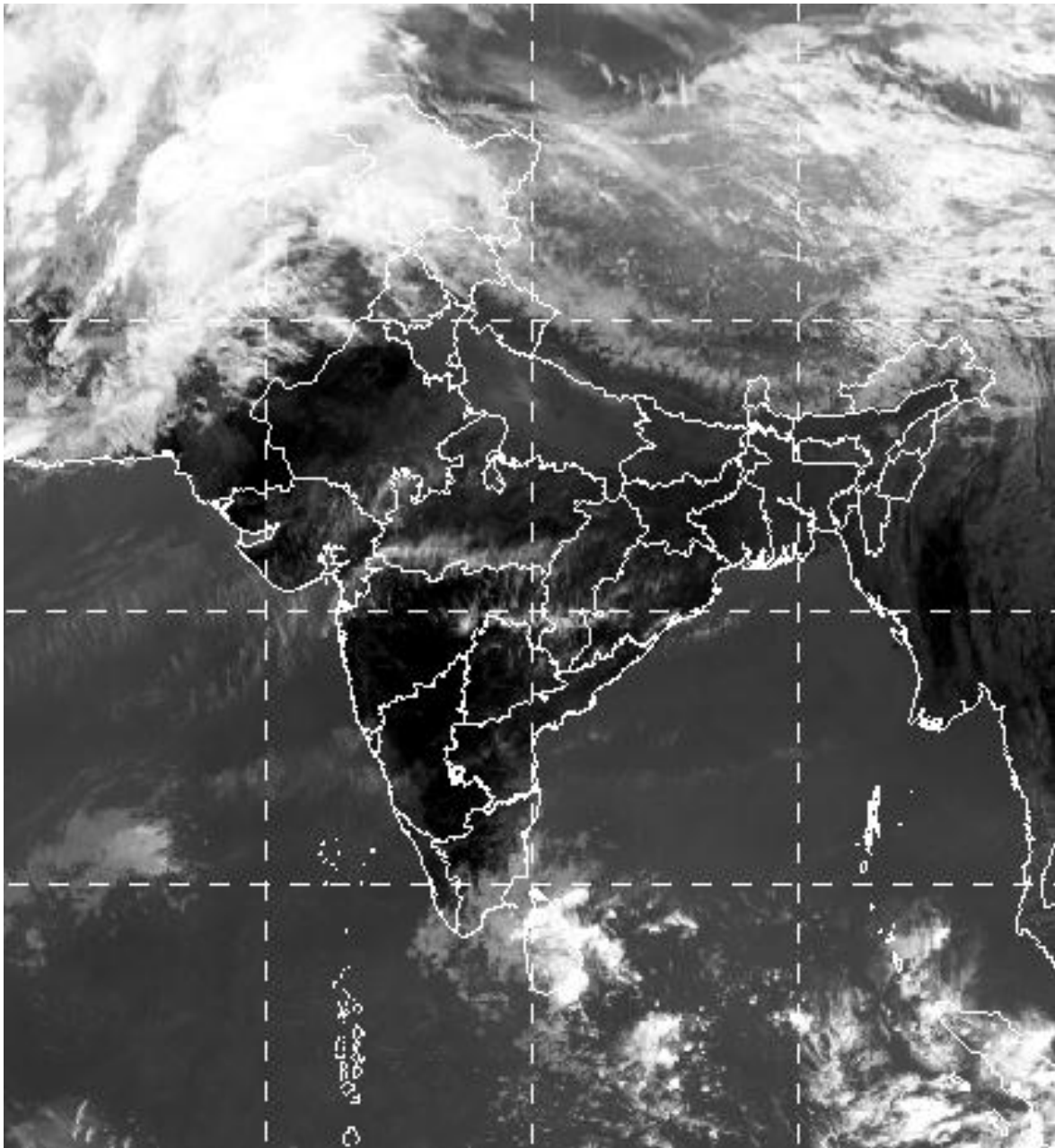
Assam

Weather condition:

Dry weather prevailed in Assam state during past few days. Daily average maximum temperature was 25.5°C which was 4.1°C below normal and the average daily minimum temperature was 11.3°C which was 1.1 below normal.

Contingency measure:

- Rapeseed & mustard: Flowering and siliqua formation stage. Farmers are advised to apply Endosulfan @2ml per litre of water in toria field during afternoon hours to control saw fly infested fields.
- Potato: Farmers are advised to harvest the early grown potato crop.
- Animal Care (Poultry): Artificial heating through lighting of electric bulb at poultry house during night time may protect the birds from fall of night temperature and reduce the incidence of mortality.



**Figure: 1. Latest available satellite picture as on 04 February 2019 at 0230 Hrs (IST).
(Source: IMD).**

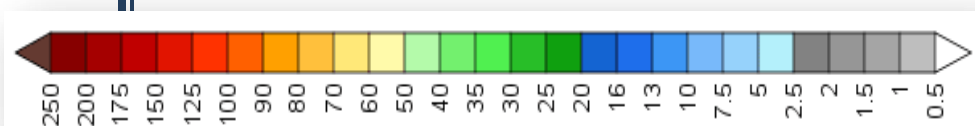
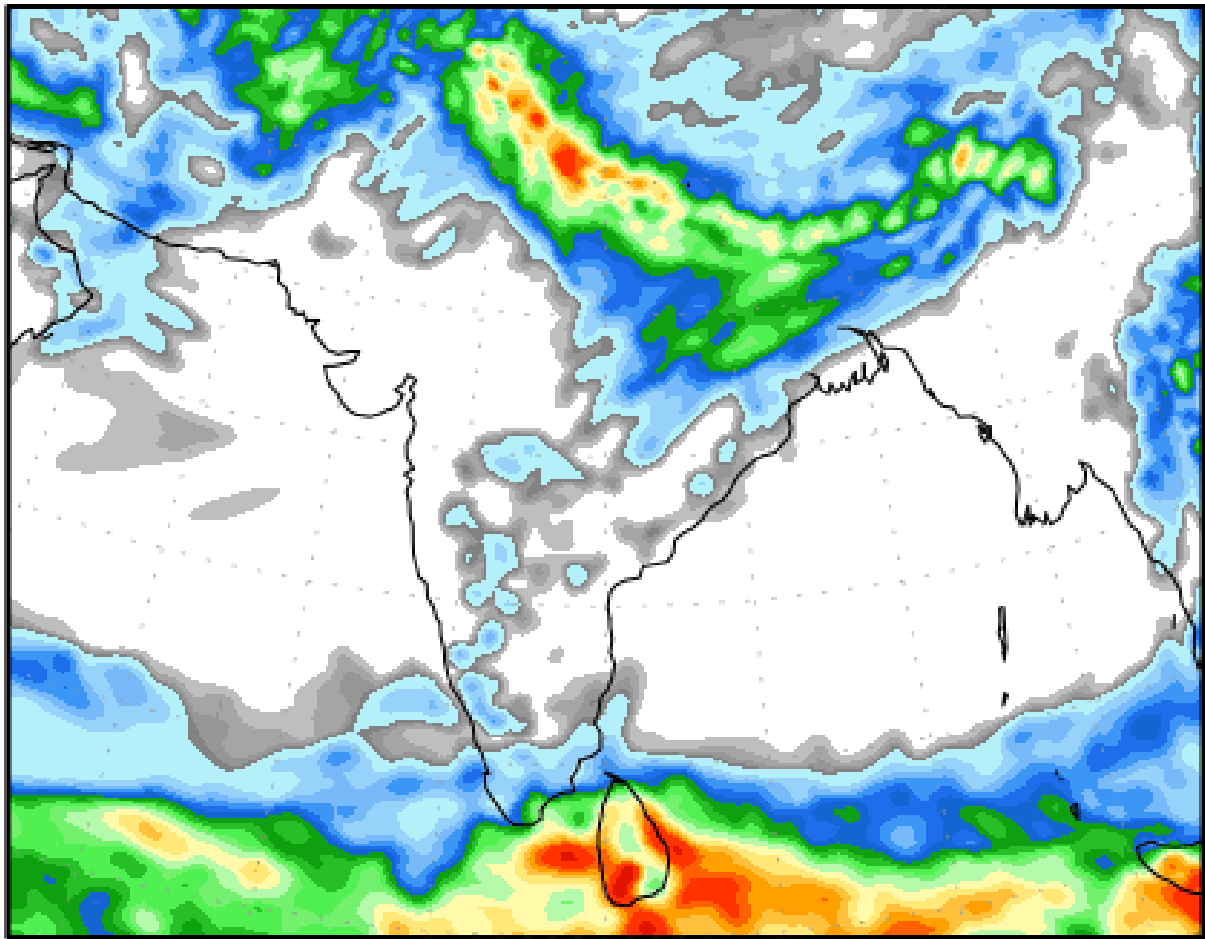


Figure: 2. Precipitation forecast for 04 to 11 February 2019 (Source: NOAA NCEP).