

All India Coordinated Research Project on Agrometeorology

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Daily Crop Weather Information as on 16 January 2019

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The current Western Disturbance and another Western Disturbance in succession are likely to cause isolated to scattered rain / snow over Western Himalayan region during next 4 days. Fairly widespread rain / snow is likely over Jammu & Kashmir on today and on 19th January.
- Thereafter, it is very likely that an intense western disturbance could lead to a wet spell over western Himalayan region and northern plains during 20th to 24th January. During this period, widespread rainfall with isolated heavy /very heavy rain/snow are likely over western Himalayan region. Fairly widespread to widespread rainfall likely over Punjab, Haryana, Chandigarh, Delhi and Uttar Pradesh during 21st to 23rd January.
- Night minimum temperatures are likely to rise gradually by 2-4°C during next four days over northwest India and northern plains due to the resultant changes in the wind pattern and cloudiness in association with the expected passage of western disturbances in quick succession across northern parts of the country.
- Moderate fog observed at isolated places over Punjab, Haryana, Delhi, Uttarakhand and Assam at 0830 hours IST of today. Visibility :- Ludhiana, Patiala, Panthagar, Karnal, Safdarjung (Delhi), Dhubri and Pet Jorhat - 200 M each.
- The images showing the latest satellite picture in figure. 1.

Main Weather Observations (IMD)

- Rainfall observed (from 0830 hours IST of yesterday to 0830 hours IST of today): Rain/Snow occurred at isolated places over Jammu & Kashmir. Rain/Thundershowers occurred at a few places over Andaman & Nicobar islands and at isolated places over Arunachal Pradesh and Nagaland.
- Maximum temperature departures as on 15.01.2019: Maximum temperatures were above normal (1.6°C to 3.0°C) most places over Coastal Karnataka; at many places over Saurashtra & Kutch; at a few places over Himachal Pradesh, Assam &

Meghalaya, Arunachal Pradesh, Konkan & Goa, South Interior Karnataka, Kerala and Jammu & Kashmir and at isolated places over Sub-Himalayan West Bengal & Sikkim, Tamilnadu & Puducherry and Andaman & Nicobar Islands. They were appreciably below normal (-3.1°C to -5.0°C) at isolated places over Madhya Pradesh; below normal (-1.6°C to -3.0°C) at most places over Uttar Pradesh; at many places over Haryana & Delhi; at a few places over Gangetic West Bengal and at isolated places over Marathawada and Odisha and near normal over rest parts of the country.

- Yesterday, the highest maximum temperature of 36.6°C was recorded at Bajpe (Coastal Karnataka) over the plains of the country.
- Minimum temperature departures as on 16-01-2019: Minimum temperatures are appreciably below normal (-3.0°C to -5.0°C) at most places over East Madhya Pradesh and at many places over Chhattisgarh; below normal (-1.6°C to -3.0°C) at most places over West Madhya Pradesh, Odisha, Gangetic West Bengal, Vidharbha and Jharkhand; at many places over Haryana, Chandigarh & Delhi, East Uttar Pradesh; at a few places over West Uttar Pradesh, South & Coastal Karnataka and Rayalaseema and at isolated over Rajasthan, Punjab, Himachal Pradesh, Marathawada, Madhya Maharashtra, Saurashtra & Kutch, Kerala , Tamilnadu & Puducherry and Assam & Meghalaya. They are above normal (1.6°C to 3.0°C) at most places over Jammu & Kashmir; at a few places over West Rajasthan, Himachal Pradesh and Andaman & Nicobar Islands; at isolated places over Saurashtra & Kutch and near normal over rest parts of the country.
- The lowest minimum temperature of 0.8°C is recorded at Khajuraho (East Madhya Pradesh) over the plains of the country.

Weather Warning during next 5 days (IMD)

- 16 January (Day 1): Cold wave conditions in some parts very likely over East Madhya Pradesh and at isolated pockets over Vidharbha and Chhattisgarh. Dense fog at isolated places in the morning hours very likely over Punjab, Haryana, north West Uttar Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram and Tripura.
- 17 January (Day 2): Cold wave conditions at isolated pockets very likely over East Madhya Pradesh. Dense fog at isolated places in the morning hours very likely over Punjab, Haryana and north West Uttar Pradesh.
- 18 January (Day 3): No Weather Warning.
- 19 January (Day 4): No Weather Warning.

- 20 January (Day 5): Heavy rain/snow at isolated places likely over Jammu & Kashmir.
- The weather outlook for the period of seven days i.e 16 to 23 January 2019 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thundershower may occur over Jammu & Kashmir, Arunachal Pradesh, Nagaland and Andaman & Nicobar Islands. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Chhattisgarh

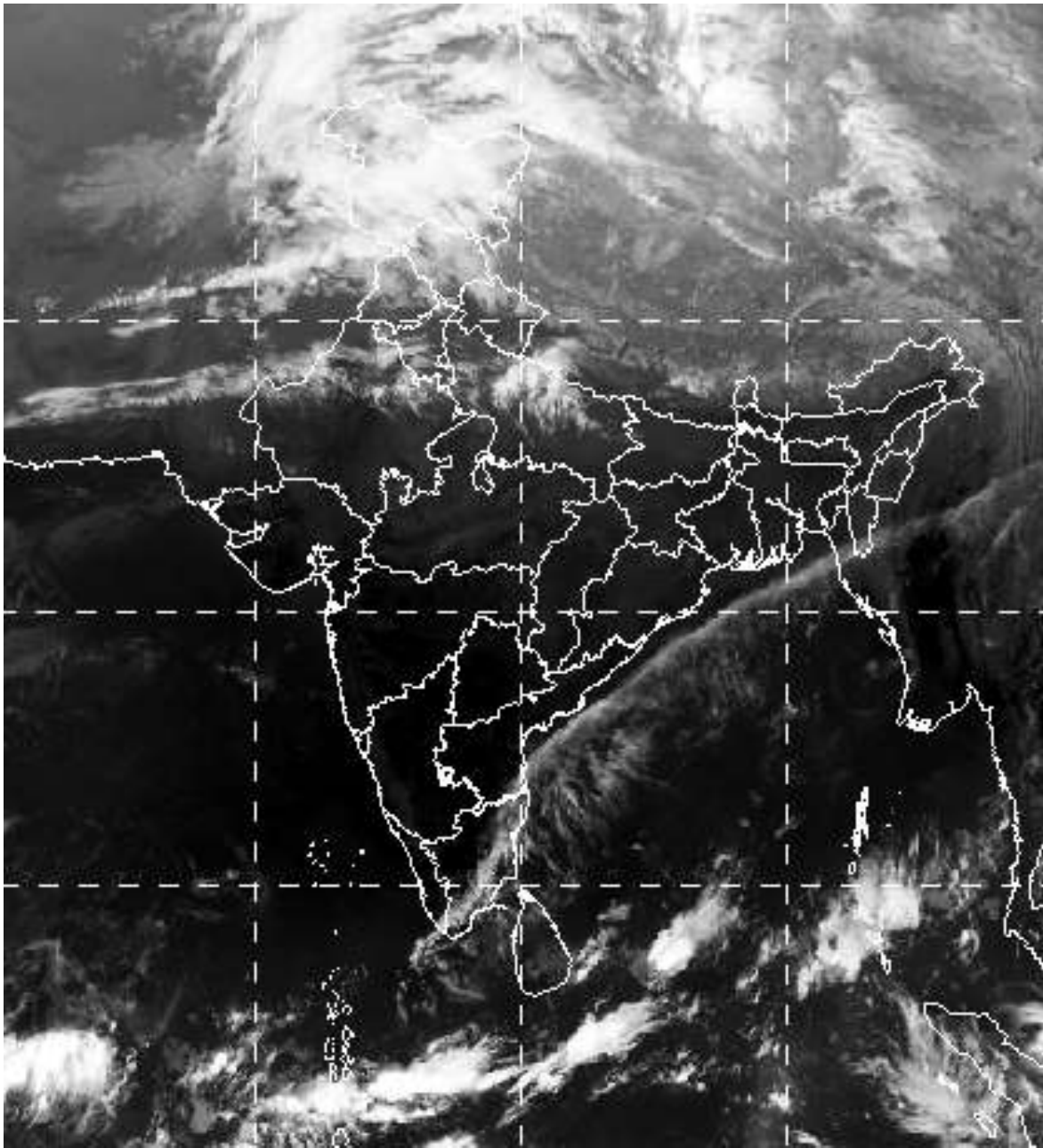
Weather condition:

Dry weather prevailed in Chhattisgarh state during past few days.

Contingency measure:

- General: For control of broad leaved weeds in wheat crop at 30-35 days old age crop 500 grams 2,4-D mixed in 200 liter of water can be sprayed.
- This is high time for winter maize and sunflower. Therefore farmers are advised for sowing of these crop and prepare their fields . Looking into cloudy weather there is chance of aphid attack in oilseed, pulses and vegetables. Therefore, farmers are advised to do continuous monitoring and spray neem based pesticides when initial outbreak is shown.
- Looking to the weather condition there is possibility of infestation of pod borer in chick- pea. Hand picking should be done for control. To increase birds activity, T or Y shaped woods should be installed @ 20-25 Nos/ ha in different places of field. To monitor adult insect use Pheromone trap @ 2 Nos/acre. Nipping should be done in 40-45 days crop of gram.
- Vegetables/ Fruit: Pomegranate, Phalsa, Aonla and Ber fruits plant should be protected from insect- pests by spraying of recommended insecticides. Prepare seedling of Cucurbitaceous vegetable and polythene bag for getting early produce .
- Earthing and fertilizer application followed by irrigation should be done in one month old potato crop. Flowering in mango crop has started. Upon 50% flowering, irrigation should be given strictly at 15 days or more interval. Continuous irrigation results in more vegetative growth.
- Animal husbandry: If calf has turned very weak and hair are falling, then this might be due to deficiency of vitamin ?A? Therefore injection should be given. In case of

skin disease affected parts of animals should be cleaned by cotton, Himex ointment should be used. To ensure green fodder availability for milch animals/live stock, M.P. chari fodder crops should be sown in well prepared field. If windows are not installed in the cattle and poultry house then gunny bags should be hanged to prevent cold air. For maintaining milk production in milch animals, they should be protected from low temperature. They should be fed mixture of Gud and concentrate.



**Figure: 1. Latest available satellite picture as on 16 January 2019 at 0230 Hrs (IST).
(Source: IMD).**

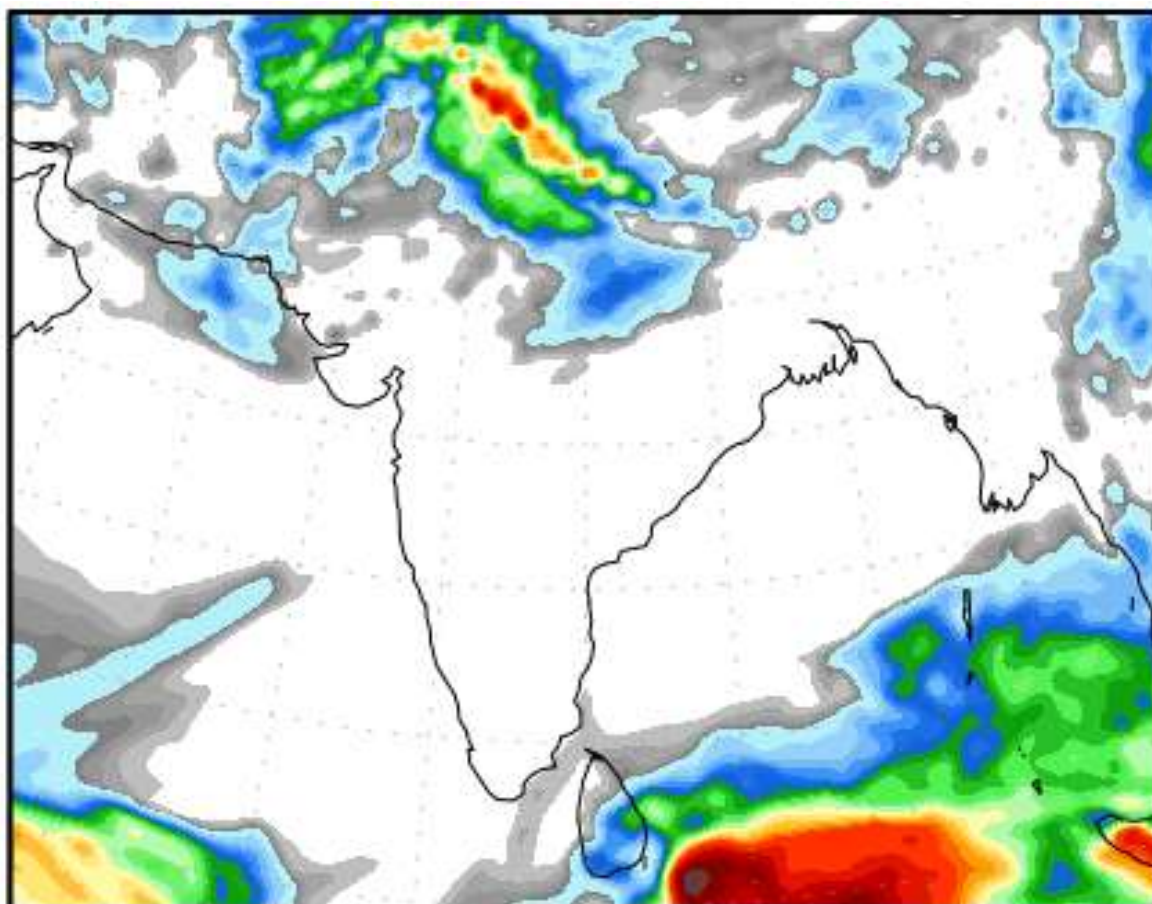


Figure: 2. Precipitation forecast for 16 to 23 January 2019 (Source: NOAA NCEP).