

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 28 January 2019

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A fresh western disturbance is likely to cause fairly widespread to widespread rain/snow over Western Himalayan region on 30th & 31st January and isolated to scattered rain/thundershowers over plains of northwest India during 30th January-2nd February. Isolated hailstorm/ thunderstorms are also likely over Western Himalayan Region and adjoining plains of northwest India on 30th & 31st January.
- The prevailing cold wave to severe cold wave conditions are likely to continue over some parts of Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh and Madhya Pradesh during next 2 days and abate thereafter, in view of the likely changes in the wind pattern, humidity and cloud cover.
- Cool winds along with cloudy skies had led to the prevalence of cold day conditions over several parts of northwest and central India during past 2 days. This situation is likely to improve gradually and the day temperatures are likely to rise by 2-3 °C over these regions from 30th January.
- The images showing the latest satellite picture in figure. 1.

Main Weather Observations (IMD)

- Rain/Snow observed (from 0830 hrs IST of yesterday to 0830 hrs IST of today): Light rain/snow occurred at isolated places over Himachal Pradesh and Uttarakhand. Rain/Snow recorded (1 cm or more) at 0830 hrs IST of today is Solan- 1 cm. Rain/thundershowers occurred at a few places over Coastal Andhra Pradesh, Telangana and Rayalaseema and at isolated places over Chhattisgarh, Odisha, Sub-Himalayan West Bengal, Arunachal Pradesh, Assam & Meghalaya, Bihar, Tamilnadu , Interior Karnataka and Kerala. Heavy rainfall observed at isolated places over Telangana & Rayalaseema.
- Moderate fog observed at isolated places over Odisha and Uttarakhand at 0830 hours IST of today. Visibility: Jharsuguda and Pantnagar - 200 M each.

- Cold wave to severe cold wave conditions prevailed over Punjab, Haryana, West Uttar Pradesh, East Rajasthan and Madhya Pradesh. Cold day condition observed at most places over Punjab, East Rajasthan, Haryana, Madhya Pradesh and north Madhya Maharashtra.
- Maximum temperature departures as on 27.01.2019: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Assam & Meghalaya and Sub- Himalayan West Bengal & Sikkim and at isolated places over Tamilnadu & Puducherry; above normal (1.6°C to 3.0°C) at isolated places over Konkan & Goa. They were markedly below normal (-5.1°C or less) at many places over Madhya Pradesh; at a few places over East Rajasthan, Vidarbha, Marathwada, Madhya Maharashtra, Chhattisgarh, Telangana and Odisha; appreciably below normal (-3.1°C to -5.0°C) at many places over North Interior Karnataka; at a few places over Himachal Pradesh, Haryana, Chandigarh & Delhi, Uttar Pradesh and Gujarat and at isolated places over West Rajasthan and below normal (-1.6°C to -3.0°C) at many places over Jharkhand and Uttarakhand and at a few places over Gangetic West Bengal, Coastal Andhra Pradesh and Coastal Karnataka and near normal over rest parts of the country.
- Yesterday, the highest maximum temperatures of 35.0°C was recorded at Punalur (Kerala) over the plains of the country.
- Minimum temperature departures as on 28.01.2019: Minimum temperatures are markedly below normal (- 5.1 or less) at a few places over West Madhya Pradesh and Vidarbha and at isolated places over East Madhya Pradesh and Gujarat region; appreciably below normal (-3.1°C to -5.0°C) at many places over Jammu & Kashmir, Himachal Pradesh and West Uttar Pradesh and at a few places over Haryana, Chandigarh & Delhi and below normal (-1.6°C to -3.0°C) at many places over Marathawada and at a few places over Saurashtra & Kutch, Madhya Maharashtra, Konkan & Goa and Coastal Karnataka and near normal over rest parts of the country.
- The lowest minimum temperature of 0.5°C is recorded at Churu (West Rajasthan) and Amritsar (Punjab) over the plains of the country.

Weather Warning during next 5 days (IMD)

- 28 January (Day 1): Cold wave conditions in some parts with severe cold wave at isolated pockets very likely over Madhya Pradesh Punjab, Haryana ,Chandigarh & Delhi; Cold wave conditions in some parts very likely over Rajasthan; at isolated pockets over West Uttar Pradesh and Vidarbha. Cold Day conditions at some places very likely over Madhya Pradesh and at isolated pockets over Punjab, Rajasthan, Haryana, Chandigarh & Delhi and West Uttar Pradesh. Ground frost conditions very likely at isolated places over Madhya Pradesh, Punjab, Haryana, Chandigarh. Heavy

rainfall at isolated places very likely over Rayalaseema & Coastal Andhra Pradesh. Strong wind speed reaching 35-45 kmph likely over eastcentral Arabian Sea and northeast Arabian Sea. Fishermen are advised not into venture into these areas.

- 29 January (Day 2): Cold wave conditions in some parts with severe cold wave at isolated pockets very likely over Madhya Pradesh; at isolated pockets over Punjab, Haryana, Chandigarh & Delhi, Rajasthan and West Uttar Pradesh. Ground frost conditions very likely at isolated places over Madhya Pradesh. Thunderstorm accompanied with hailstorm very likely over Meghalaya.
- 30 January (Day 3): Thunderstorm accompanied with hailstorm likely over Jammu division of Jammu & Kashmir, Himachal Pradesh, Punjab and north Rajasthan.
- 31 January (Day 4): Thunderstorm accompanied with hailstorm very likely over Jammu division of Jammu & Kashmir, Himachal Pradesh, Uttarakhand, north Rajasthan, Punjab and north Haryana.
- 01 February (Day 5): No weather warning.
- The weather outlook for the period of seven days *i.e* 28 January to 04 February 2019 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thundershower may occur over Sub-Himalayan West Bengal, Bihar, Chhattisgarh, Odisha, Coastal Andhra Pradesh, Rayalaseema, Telangana Tamilnadu , Interior Karnataka Kerala and North Eastern States. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Rajasthan

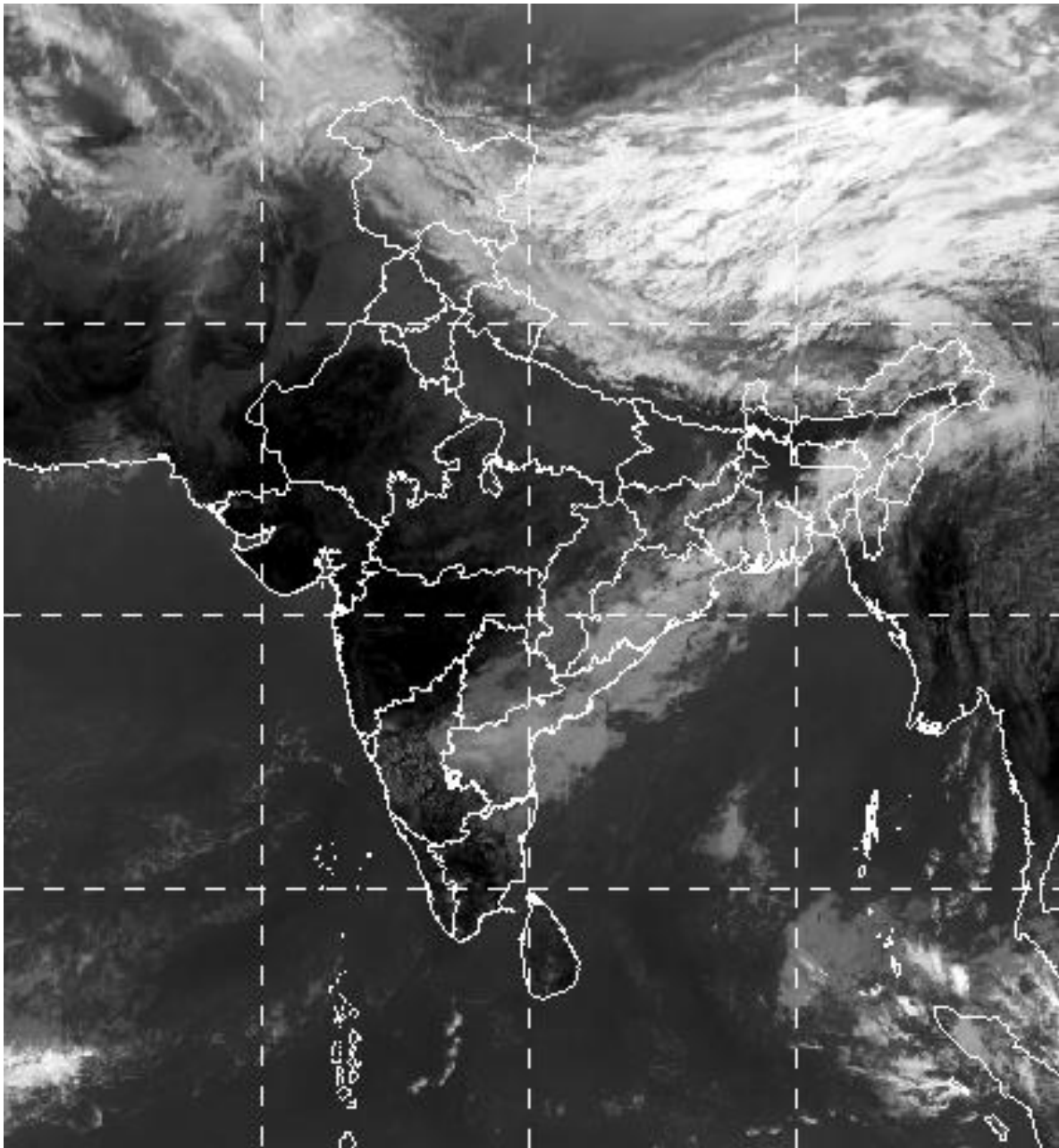
Weather condition:

Most of the part in Rajasthan state experienced clear and severe cold weather conditions during past few days. Fatehpur (Sikar) recorded minimum temperature-2.0°C Jobner 0.0°C on 15th January. The maximum temperature ranges from 22.5 to 30.0 °C with mean value of 26.8 °C which was 3.2 °C above the normal value. The minimum temperature ranges from 4.1 to 8.0 °C with mean value of 5.6°C which was 0.4 °C above normal.

Contingency measure:

- Regular monitoring for insect-pest attack in mustard and follow plant protection measure. For the control of aphid, spray Di-methoate 30 EC 875 ml per ha. There is a possibility of pod borer infestation in gram crop so spray of mono-crotophos 36 SL 1.0 litre per hectare by dissolve with water should be done.

- Due to low temperature in coming days to avoid frost injury apply irrigation, spray 0.1 % H₂SO₄ & fumigation on field at evening time. Use crop & weed residue for fumigation.
- Apply 30 kg nitrogen in late sown wheat where the crop is at tillering stage.
- Spray wettable sulphur 80 WP @2g/litre of water in mustard for the control of powdery mildew.
- For the control of gram pod borer at 50% flowering stage, spray of NPV 250 LE 1 ml /litre water and second spray at 15 days BTK Dipel 8L 1.5 litre/ha.
- Top dressing of 1/4th of nitrogen (65 kg Urea) in opium poppy at flowering stage & spray Ridomil @3g/litre of water to control downy mildew.



**Figure: 1. Latest available satellite picture as on 28 January 2019 at 0230 Hrs (IST).
(Source: IMD).**

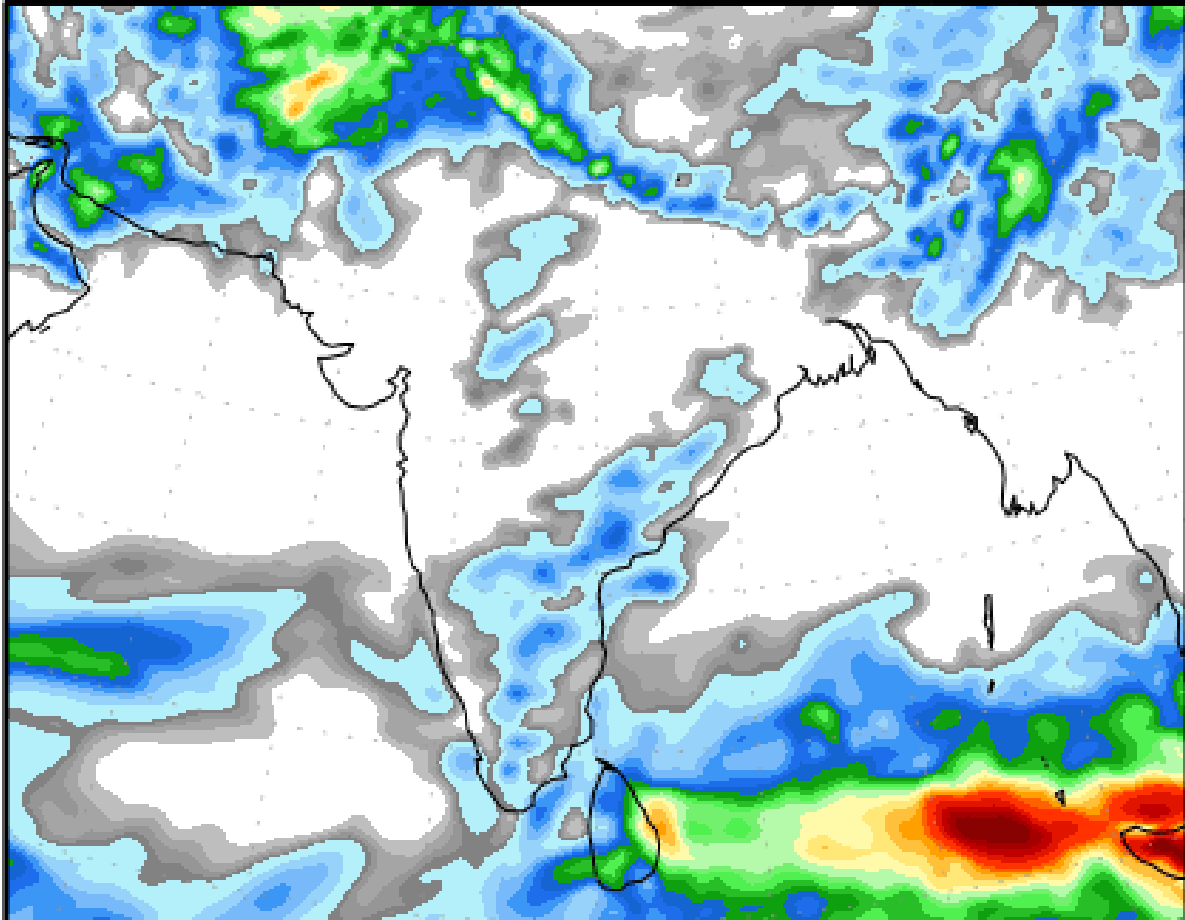


Figure: 2. Precipitation forecast for 28 January to 04 February 2019 (Source: NOAA NCEP).