

# **All India Coordinated Research Project on Agrometeorology**

## **CRIDA, Santoshnagar, Hyderabad – 500 059**

### **Daily Crop Weather Information as on 26 February 2019**

**Attention: Rajiv Maheshwari, OSD, ICAR**

#### **Significant Weather Features (IMD)**

- Under the influence of a fresh western disturbance along with its induced cyclonic circulation fairly widespread to widespread rain/snow along with isolated thunderstorms/hailstorms are likely over Western Himalayan region during next 48 hours and fairly widespread to widespread rainfall with isolated thunderstorms/hailstorms over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh and north Rajasthan during next 36 hours.
- Strong surface winds speed reaching 30-40 kmph gusting to 50 kmph are likely over plains of northwest India, mainly over Punjab, Haryana, West Rajasthan, Uttar Pradesh and West Madhya Pradesh during next 48 hours.
- Enhanced rainfall activity is taking place over east & northeast India for the past two days due to conducive conditions for moisture incursion and wind confluence in the lower levels and divergence in the upper levels. Scattered to fairly widespread/widespread rainfall with isolated thundersqualls, hailstorms & lightning are very likely to continue over northeastern states during next 3 days. Isolated thunderstorm activity is also likely over Bihar, Jharkhand, Odisha and West Bengal & Sikkim during next 48 hours.
- Isolated heavy rainfall is very likely over Tripura today, over Assam & Meghalaya on 26th & 27th and over Arunachal Pradesh on 28th February.
- The images showing the latest satellite picture in figure. 1.

#### **Main Weather Observations (IMD)**

- Rain/Snow (from 0830 hrs IST of yesterday to 0830 hrs IST of today): Rain/Snow occurred at most places over Jammu & Kashmir; at isolated places over Himachal Pradesh and Uttarakhand. Rain/ Thundershowers occurred most places over Gangetic West Bengal and Nagaland, Manipur, Mizoram & Tripura; at many places over Arunachal Pradesh; at a few places over Haryana, Chandigarh & Delhi, West Uttar Pradesh and Odisha; at isolated places over Punjab, West Rajasthan, East Uttar

Pradesh, Gujarat region, Sub-Himalayan West Bengal & Sikkim, Bihar, East Madhya Pradesh, Jharkhand, Chhattisgarh and Assam & Meghalaya.

- Maximum temperature departures as on 25.02.2019: Maximum temperatures were markedly above normal (5.1°C or more) at isolated places over Rayalaseema; appreciably above normal (3.1°C to 5.0°C) at many places over South Interior Karnataka; at isolated places over Madhya Maharashtra and Tamilnadu & Puducherry; above normal (1.6°C to 3.0°C) at many places over Telangana; at a few places over Vidarbha and Kerala; at isolated places over East Madhya Pradesh, North Interior Karnataka, Coastal Andhra Pradesh, interior Odisha, Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya. They were markedly below normal (-5.1°C or less) at a few places over Gangetic West Bengal; appreciably below normal (-3.1°C to -5.0°C) at a few places over Nagaland, Manipur, Mizoram & Tripura; at isolated places over rest north Odisha; below normal (-1.6°C to -3.0°C) at a few places over Jammu & Kashmir and Himachal Pradesh; at isolated places over East Rajasthan, Uttar Pradesh and West Madhya Pradesh and near normal over rest parts of the country.
- Yesterday, the highest temperature of 39.9°C was recorded at Tirupathi (Rayalaseema) over the country.
- Minimum temperature departures as on 26.02.2019: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at a few places over Saurashtra & Kutch and Odisha; at isolated places over Gujarat region, Assam & Meghalaya and Andaman & Nicobar Islands; above normal (1.6°C to 3.0°C) at most places over Jharkhand; at many places over Coastal Andhra Pradesh; at a few places over East Rajasthan and Tamilnadu & Puducherry; at isolated places over West Rajasthan, Uttar Pradesh and East Madhya Pradesh. They are appreciably below normal (-3.1°C to -5.0°C) at a few places over Himachal Pradesh; below normal (-1.6°C to -3.0°C) at a few places over Jammu & Kashmir and Haryana, Chandigarh & Delhi; at isolated West Madhya Pradesh and near normal over rest parts of the country.
- Today, the lowest minimum temperature of 6.7°C recorded at Ganganagar (West Rajasthan) over the plains of the country.

#### **Weather Warning during next 5 days (IMD)**

- 26 February (Day 1): Thunderstorm accompanied with Hailstorm & lightning at isolated places very likely over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, West Madhya Pradesh and Odisha. Thunderstorm accompanied with lightning & gusty winds at isolated places likely over Telangana, East Madhya Pradesh, West Bengal & Sikkim, Jharkhand, Bihar, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Arunachal Pradesh. Heavy rain at isolated places very likely over Assam &

Meghalaya and Tripura. Squally winds speed reaching 40-50 kmph very likely over northwest Bay of Bengal off north Odisha-West Bengal Coasts and strong winds speed reaching 35-45 kmph over northeast Arabian Sea off north Gujarat Coast. Fishermen are advised not to venture into these areas.

- 27 February (Day 2): Thunderstorm accompanied with Hailstorm, gusty winds & lightning at isolated places very likely over Himachal Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh and Sub-Himalayan West Bengal & Sikkim. Thundersquall accompanied with Hailstorm & lightning at isolated places very likely over Nagaland, Manipur, Mizoram & Tripura and Assam & Meghalaya. Thundersquall & lightning at isolated places likely over Bihar. Thunderstorm accompanied with lightning & gusty winds at isolated places very likely over Coastal Andhra Pradesh, Gangetic West Bengal, Jharkhand and Odisha. Heavy rain at isolated places very likely over Assam & Meghalaya. Squally winds speed reaching 40-50 kmph very likely over northwest Bay of Bengal off north Odisha-West Bengal Coasts. Fishermen are advised not to venture into these areas.
- 28 February (Day 3): Thundersquall accompanied with Hailstorm & lightning at isolated places very likely over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm accompanied with lightning & gusty winds at isolated places very likely over Coastal Andhra Pradesh. Heavy rain at isolated places likely over Arunachal Pradesh. Cold day conditions are likely to prevail in some parts of Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh and north Rajasthan.
- 01 March (Day 4): Thundersquall accompanied with Hailstorm & lightning at isolated places likely over Jammu & Kashmir.
- 02 March (Day 5): Thundersquall accompanied with Hailstorm & lightning at isolated places likely over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh and north Rajasthan. Thunderstorm accompanied with lightning & gusty winds at isolated places likely over Coastal Andhra Pradesh and Kerala.
- The weather outlook for the period of seven days *i.e* 26 February to 05 March 2019 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thundershower may occur over Punjab, Haryana, Chandigarh & Delhi, West Rajasthan, Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Gangetic West Bengal, Bihar, Jharkhand, East Madhya Pradesh, Chhattisgarh, Odisha, Gujarat region and North Eastern States. (Fig. 2).

## Agricultural activities (AICRPAM-CRIDA)

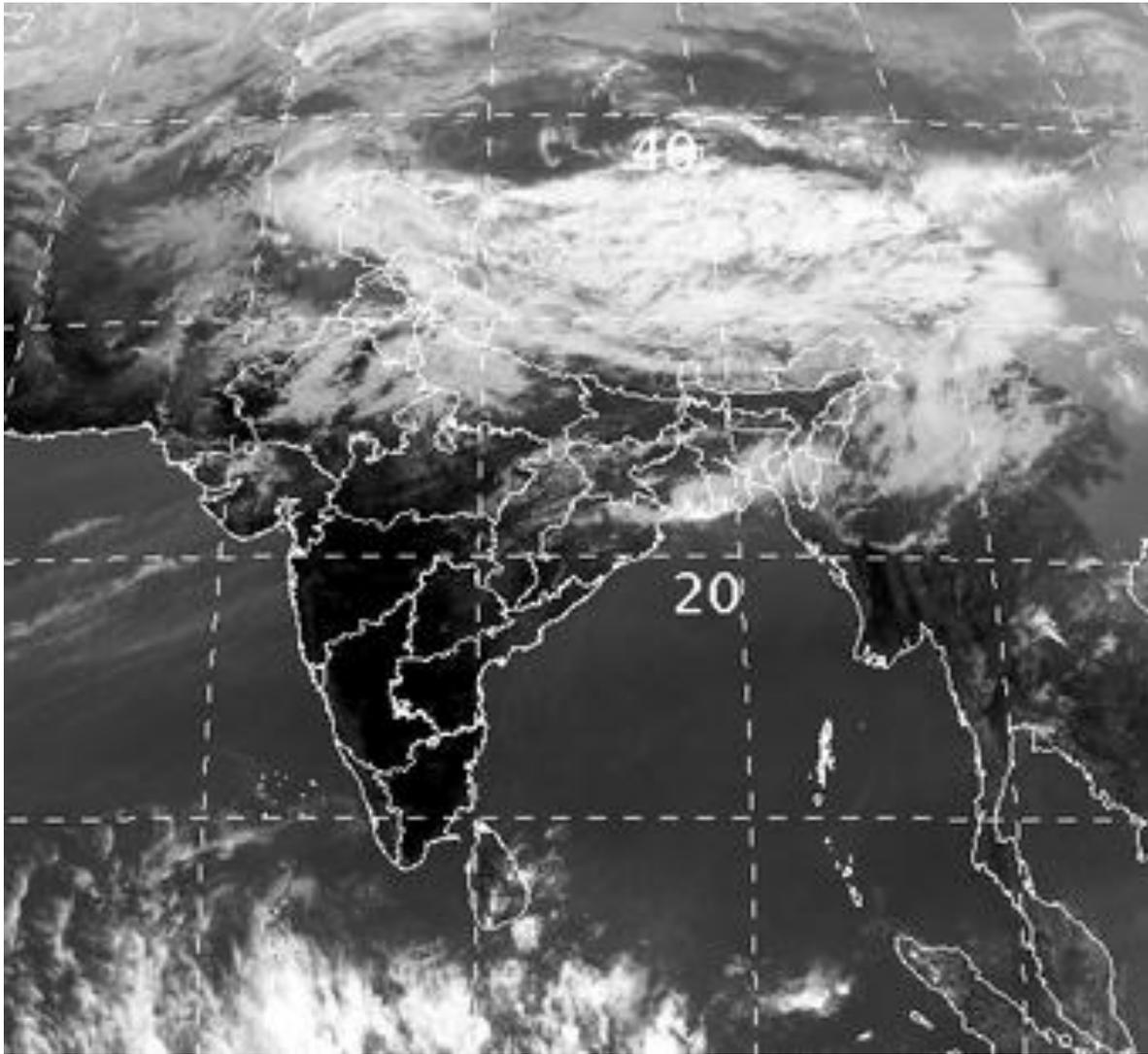
### Himachal Pradesh

#### Weather condition:

Light rainfall received in Himachal Pradesh state during past few days. The maximum temperature ranged between 13.5 to 17.5°C and minimum temperature between 4.0 to 8.0°C which was below normal by 2.5 to 3.5°C and 1.9 to 3.5°C, respectively.

#### Contingency measure:

- **Rabi Crops:** In areas where symptoms of yellow rust are appears in the wheat crop in the form of yellow powder/stripes on the leaves or susceptible varieties then the farmers are advised to spray the fungicides with the appearance of the symptoms. Apply mulch and well rotten FYM on these crops. For the control of downy mildew in garlic spray Diathane M 45 2.5 g or Bavistine 1 g per litre. In onion crop against attack of thrips. Spraying of Carbaryl @ 2 grams per litre of water with sticky material (Tipol 1.0 gram /litre) is advised.
- **Vegetable Crops:** For pod borer in the gram crop, installation of Pheromone trap @ 3-4 traps per acre is advised if flowering has reached 10-15%. T shaped bird perches in and around crop field to be installed for controlling insect population. Intercultural operations on already sown berseem ,lucerne and oats for fodder of Rabi season also advised. For shoot and fruit borer in brinjal and tomato crops, infested fruits and shoots should be collected and buried inside the soil. Also install pheromone trap @25 per hectare If pest population is high, spraying of spinosad 48 EC @ 1 ml /4 litres of water is advised when sky is clear. In present weather conditions, rouging of viral infested crop should be done in chilli. Infected crop should be uprooted and buried in the soil.
- **Dairy Animals:** Temperature is falling and a cold wave has gripped the area, so protect the newly born calves and animals from cold, naval ill and pneumonia Feed pregnant and lactating cows and buffaloes with balance feed including mineral mixture. Also keep the cowshed clean and do not allow the water to stagnate in the cow shed. Provide dry bedding to animals and save them from cold winds. Increase energy contents of concentrate mixture by adding 5-10 per cent more of cereal grains. Feed well-chaffed legumes mixed with wheat-straw in the ratio of 10:1. So keep them warm by providing dry bedding and protection against cold winds. Give them vitamin A concentrate 1ml daily in milk for three days, to be repeated after month.



**Figure: 1. Latest available satellite picture as on 26 February 2019 at 0230 Hrs (IST).  
(Source: IMD).**

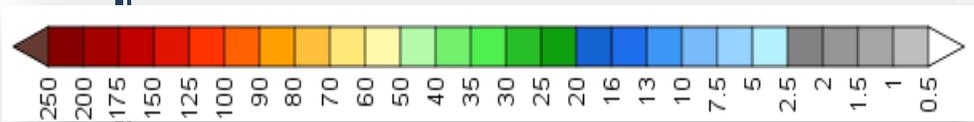
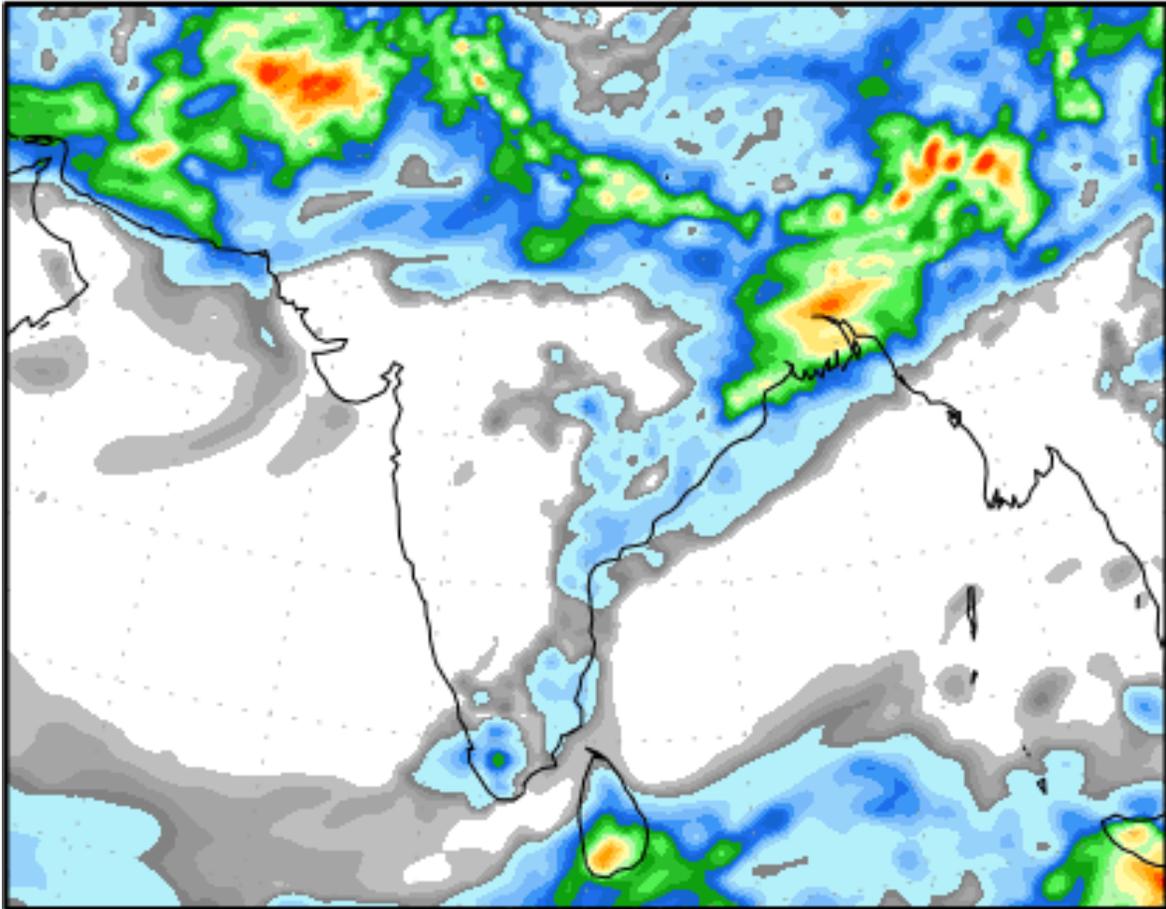


Figure: 2. Precipitation forecast for 26 February to 05 March 2019 (Source: NOAA NCEP).