

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

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

### **Daily Crop Weather Information as on 08 January 2019**

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

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

- Isolated to scattered rain/snow is likely over the western Himalayan region during next 24 hours, under the influence of the expected passage of a western disturbance from northeast Afghanistan and adjoining Pakistan. A fresh western disturbance in quick succession is very likely to cause fairly widespread to widespread rain/snowfall, once again over western Himalayan region from 10th evening to 13th January. Peak activity is likely on 12th January, when heavy rain/snow are likely at isolated places over Jammu & Kashmir and Himachal Pradesh. Isolated to scattered rainfall is also likely over the plains of northwest India during the same period.
- Dense fog is very likely to prevail at isolated places over the plains of northwest India in the morning hours of tomorrow.
- Cold wave conditions at isolated pockets are very likely to prevail over northern parts of Madhya Maharashtra during next two days and over Marathwada and Vidharbha tomorrow.
- The images showing the latest satellite picture in figure. 1.

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

- Rainfall observed (from 0830 of yesterday to 0830 hours IST of today): Rainfall observed at most places over Andaman & Nicobar Islands and at isolated places over Jammu & Kashmir, Uttarakhand, Manipur, Bihar and East Uttar Pradesh.
- Dense fog observed at isolated places over Chhattisgarh and moderate fog at isolated places over Delhi and West Uttar Pradesh at 0530 hours IST of today. Visibility:- Ambikapur-50 M; Delhi (Palam)-200 M; Delhi (Safdarjung) and Bareilly-500 M each.
- Maximum temperature departures as on 07.01.2019: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Sub-Himalayan West Bengal & Sikkim; at a few places over Assam & Meghalaya; at isolated places over Bihar, Chhattisgarh, Telangana, Konkan & Goa, Coastal Karnataka & Tamilnadu;

above normal (1.6°C to 3.0°C) at most places over Jharkhand; at a few places over Gangetic West Bengal & West Uttar Pradesh; at isolated places Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Odisha, Rayalaseema, Coastal Andhra Pradesh & North Interior Karnataka. They were markedly below normal (below -5.1°C) at isolated places over Himachal Pradesh & West Madhya Pradesh; appreciably below normal (-3.1°C to -5.0°C) at many places over East Madhya Pradesh; at a few places over East Rajasthan, Gujarat; at isolated places over Jammu & Kashmir, Uttarakhand, Saurashtra & Kutch, Madhya Maharashtra, Vidarbha & Andaman & Nicobar Islands; below normal (-1.6°C to -3.0°C) at many places over Haryana, Chandigarh & Delhi, at isolated places over Punjab, East Uttar Pradesh and near normal over rest parts of the country.

- Yesterday, the highest maximum temperature of 36.2°C was recorded at Karwar (Coastal Karnataka) over the plains of the country.
- Minimum temperature departures as on 08-01-2019: Minimum temperatures are appreciably below normal (-3.0°C to -5.0°C) at a few places over Vidharbha and Marathwada and at isolated places over below normal (-1.6°C to -3.0°C) at most places over West Madhya Pradesh; at many places over Gujarat; at a few places over East Madhya Pradesh, Chhattisgarh, Madhya Maharashtra, Coastal Andhra Pradesh and Telangana and at Isolated places over Assam & Meghalaya, Uttarakhand, East Rajasthan, Lakshadweep, South Interior Karnataka, Odisha, Tamilnadu & Puducherry and Kerala. They are above normal (1.6°C to 3.0°C) at many places over Punjab; at a few places over East Uttar Pradesh and at isolated places over Jammu & Kashmir, Haryana & Delhi, West Uttar Pradesh, Bihar and Andaman & Nicobar Islands and near normal over rest parts of the country.
- The lowest minimum temperature of 2.6°C is recorded at Bhilwara (East Rajasthan) over the plains of the country.

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

- 08 January (Day 1): Cold wave conditions very likely at isolated pockets over Marathwada, Vidarbha and north Madhya Maharashtra. Dense fog very likely at isolated places over Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, north Rajasthan and northwest Madhya Pradesh.
- 09 January (Day 2): Cold wave conditions very likely at isolated pockets over north Madhya Maharashtra.
- 10 January (Day 3): No Weather Warning.
- 11 January (Day 4): No Weather Warning.

- 12 January (Day 5): Heavy Rain/Snow at isolated places likely over Jammu & Kashmir and Himachal Pradesh.
- The weather outlook for the period of seven days *i.e* 08 to 15 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, Uttarakhand, Manipur, Bihar, East Uttar Pradesh and Andaman & Nicobar Islands. (Fig. 2).

## Agricultural activities (AICRPAM-CRIDA)

### **Jharkhand**

#### **Weather condition:**

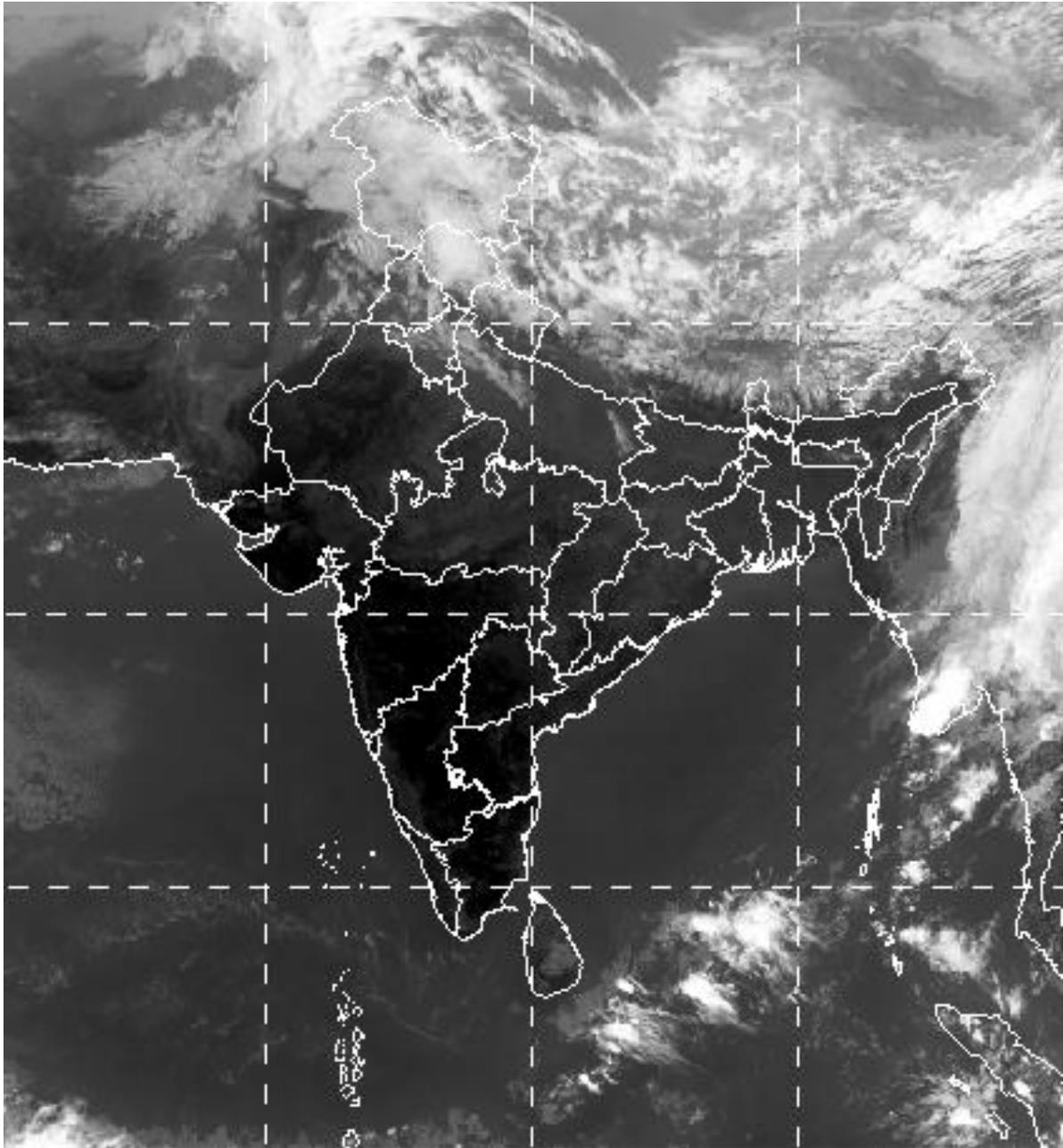
Dry weather prevailed in Jharkhand state during past few days. Daily maximum and minimum temperatures ranged from 16.8 to 20.6°C and 0.0 to 7.2 °C, respectively.

#### **Contingency measure:**

- Rabi crops: Intercultural operations should be done in pulse and oilseed crops to conserve soil moisture. Irrigate the pulse crops like gram, pea and lentil after 50-55 days of sowing (prior to flowering stage). Wheat - Broadcast urea @ 22 kg per acre after irrigation in 40 - 45 (2nd application in timely sown) and 20 -25 (1st application in late sown) days old crops. However, before urea application weeding is must. Potato - Irrigate the crops regularly after an interval of 7-10 days and spray fungicide as and when symptoms of late blight disease appears on the crop.
- The major symptoms of this disease is the formation of brown spot, initially at leaf margin which subsequently spread on the entire plant and at last entire plant dried up. Spray Redomyl (1.5 gm per litre of water) to control the disease. Remove the upper leaves/parts (Dehauling) of the crop, before 7 ? 10 days of digging.
- Rapeseed, Mustard and others. Different crops like mustard, pea, bean etc. are attacked by aphids. Spray the insecticide Dematon (Rogor) @ 1 ml. per litre of water to control the aphids. Timely sown Toria crops are now approaching the maturity stage. Harvest the crops when siliqua turns into bright yellow colour and dry the harvested crop in the sun for 2-3 days before threshing.
- Gram: Nipping (pruning of upper parts of the plant) should be done in 30 to 40 (before flowering stage) days old crops. It enables the plant to bear more and more branches and subsequently flowers & pods. After nipping farmers may generate

income by selling the pruned parts as Chana sag. However, this practice is restricted in those field where moisture is a limiting factor.

- **Fruit: trees** It is the time of bearing flowers in Mango and Litchi plant. To keep the plant healthy, spray the insecticide Monocrotophos 36 E.C. (@ 2 ml. per liter of water) along with the fungicide Bavistin (@1 gm per liter of water). For vigorous flowering & fruiting, PGR Miraculan may be mixed in the solution @ 1 ml per liter of solution.
- **Vegetables:** For cultivation of early summer vegetable, sow the seeds of cucurbitaceous plants in polythene bag(filled with soil and FYM) and keep it at warmer place. Before seeding, seeds must be soaked in water for 24 hours.
- **Cattle:** Cattle should be protected from cold waves and keep their place warm. And do not allow them to remain in open sky during early morning and late evening. Existing weather situation is favourable for the attack of F.M.D. (Chapka disease) in cattle. Vaccinate the animals against this disease.



**Figure: 1. Latest available satellite picture as on 08 January 2019 at 0230 Hrs (IST).  
(Source: IMD).**

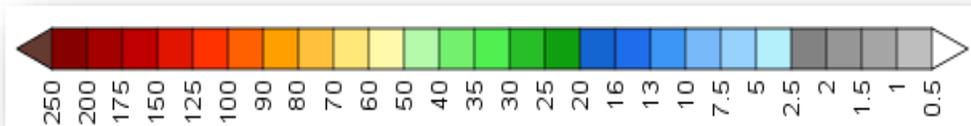
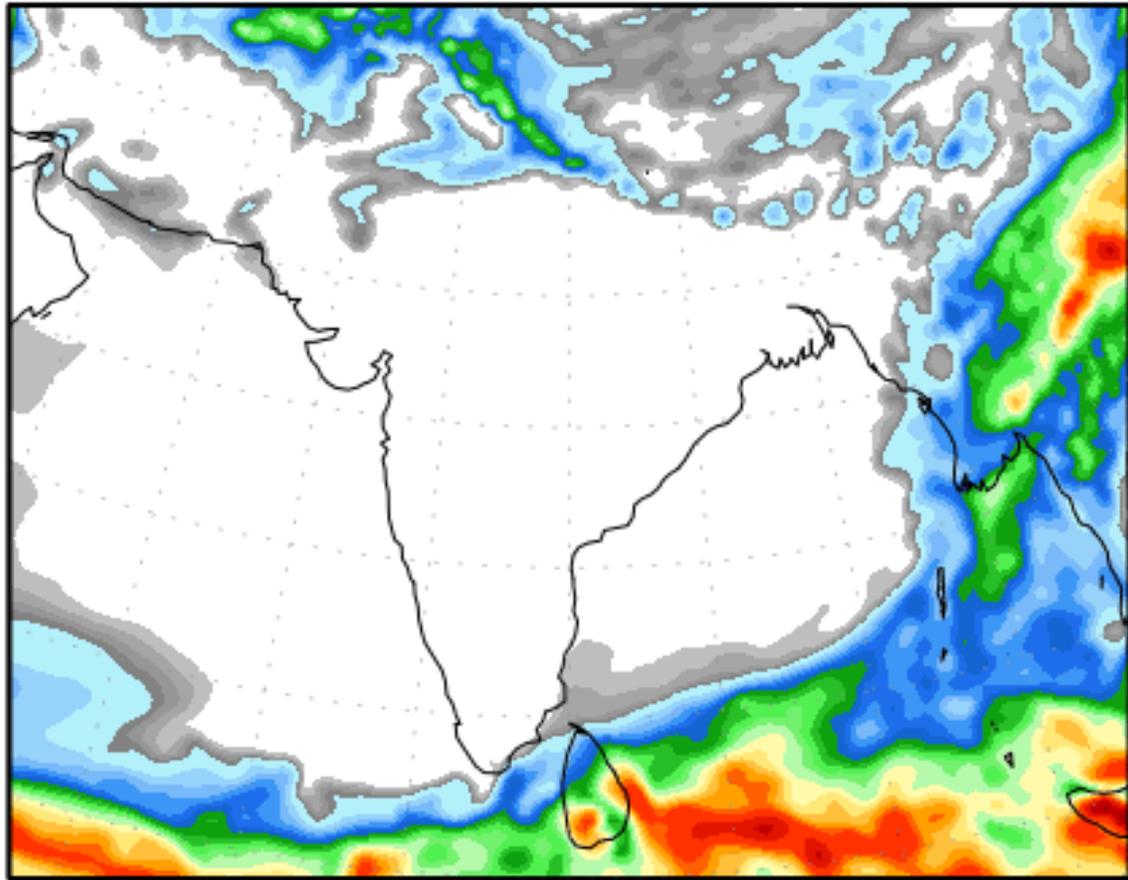


Figure: 2. Precipitation forecast for 08 to 15 January 2019 (Source: NOAA NCEP).