

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

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

### **Daily Crop Weather Information as on 03 January 2019**

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

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

- Fairly widespread to widespread rain/snow is very likely over Jammu & Kashmir, Himachal Pradesh and Uttarakhand during 4th-6th January. Heavy rain/snow and hailstorm are likely to occur at isolated places over Jammu & Kashmir and Himachal Pradesh on 4th and 5th January. Along with this fairly widespread to widespread rainfall is also likely over Punjab and Haryana, Chandigarh & Delhi on 5th and 6th January with likely heavy rains on 5th and isolated hailstorms on 5th and 6th. Isolated to scattered rain is also likely over adjoining areas of north Rajasthan and also over Uttar Pradesh during the same period.
- Dense to very dense fog likely over parts of northwest India in the morning hours of tomorrow.
- A cyclonic storm 'PABUK' now lies over south China Sea. It is very likely to move west-northwestwards and emerge into Andaman Sea around the forenoon of 5th January 2019. Thereafter, it is very likely to move northwestwards and cross Andaman Islands around evening/night of 6th January. Thereafter, it is very likely to move north-northwestwards and then recurve northeastwards towards Myanmar coast and weaken further during 7th- 8th January.
- 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 many places over Jammu & Kashmir and at isolated places over Himachal Pradesh. Dense to very dense fog observed at most places over Punjab; at many places over north Rajasthan and at isolated places over Himachal Pradesh and Haryana, Chandigarh & Delhi; dense fog at isolated places over Jammu & Kashmir, Uttar Pradesh, Bihar, Gangetic West Bengal, Assam & Meghalaya and Coastal Andhra Pradesh at 0830 hours IST of today Visibility: Delhi (Palam), Amritsar, Ludhiana, Patiala, Ganganagar, Pilani, Churu and Hissar-25 M each; Mandi and Bhiwani- 50 M each; Delhi (Ridge), Sikar, Fursatganj and Machilipatnam-

200 M each; Kupwara, Bikaner, Bareilly, Lucknow, Patna, Shanti Niketan and Majbat-500 M each.

- Maximum temperature departures as on 02.01.2019: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Nagaland, Manipur, Mizoram & Tripura, Vidarbha and Marathawada; at a few places over Madhya Pradesh and Madhya Maharashtra; above normal (1.6°C to 3.0°C) at most places over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Rajasthan and Saurashtra & Kutch; at many places Chhattisgarh and Coastal Karnataka; at a few places over Haryana, Chandigarh & Delhi, Punjab, Jharkhand, Gujarat Region and Andaman & Nicobar Islands. They were below normal (-1.6°C to -3.0°C) at many places over Himachal Pradesh; at a few places over Jammu & Kashmir and Odisha; at isolated places over Odisha and Gangetic West Bengal and near normal over rest parts of the country.
- Yesterday, the highest maximum temperature of 36.0°C was recorded at Karwar (Coastal Karnataka) over the plains of the country.
- Minimum temperature departures as on 03.01.2019: Minimum temperatures are appreciably below normal (-3.1°C to -5.0°C) at many places over North interior Karnataka; at a few places over Madhya Maharashtra, Telangana, Rayalaseema and South interior Karnataka; and at isolated places over Vidarbha, Tamilnadu & Puducherry, Odisha, Saurashtra & Kutch and Himachal Pradesh; below normal (-1.6°C to -3.0°C) at most places over Bihar, Jharkhand, Konkan & Goa and Coastal Karnataka; at many places over Uttarakhand, Marathawada, Chhattisgarh and Gangetic West Bengal; at a few places over Sub- Himalayan West Bengal & Sikkim, East Madhya Pradesh, Gujarat Region and Lakshadweep and at isolated places over East Uttar Pradesh, West Madhya Pradesh and East Rajasthan; They are above normal (1.6°C to 3.0°C) at most places over West Rajasthan; at a few places over West Uttar Pradesh; and at isolated places over Jammu & Kashmir, Haryana, Chandigarh & Delhi, Punjab and Andaman & Nicobar Islands. and near normal over rest parts of the country.
- The lowest minimum temperature of 1.8°C recorded at Amritsar (Punjab) over the plains of the country.

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

- 03 January (Day 1): Cold day conditions at isolated pockets very likely over Punjab, Haryana and north Rajasthan. Dense Fog very likely at many places with very dense fog at a few places over Punjab, Haryana and north Rajasthan and dense fog at isolated places over West Uttar Pradesh.

- 04 January (Day 2): Heavy snowfall very likely at isolated places over Jammu & Kashmir and Himachal Pradesh. Hailstorm very likely at isolated places over Jammu Division, Himachal Pradesh and Uttarakhand. Dense Fog very likely at isolated places over Assam & Meghalaya. Squally winds speed reaching 40-50 Kmph gusting to 60 Kmph very likely over Andaman Sea along & off south Myanmar & Thailand coast. Sea condition is likely to be rough to very rough over these areas. Fishermen are advised not to venture into these areas.
- 05 January (Day 3): Heavy snowfall very likely at isolated places over Jammu & Kashmir and Himachal Pradesh and heavy rainfall at isolated places over Punjab, north Haryana & Chandigarh and Andaman & Nicobar Islands. Hailstorm likely at isolated places over Jammu Division, Himachal Pradesh, Uttarakhand, Punjab and north Haryana & Chandigarh. Squally winds speed reaching 55-65 Kmph gusting to 75 Kmph likely over Andaman Sea and neighbourhood. Sea condition is likely to be rough to very rough over these areas. Fishermen are advised not to venture into these areas.
- 06 January (Day 4): Heavy to very heavy rainfall is likely at a few places over Andaman Islands. Hailstorm likely at isolated places over Punjab and north Haryana & Chandigarh. Cold wave conditions at isolated pockets likely over north Madhya Maharashtra and Gujarat State. Dense Fog likely at isolated places over Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh and north Rajasthan. Squally winds speed reaching 55-65 Kmph gusting to 75 Kmph likely over Andaman Islands, Andaman Sea and adjoining areas of eastcentral & southeast Bay of Bengal. Sea condition is likely to be rough to very rough over these areas. Fishermen are advised not to venture into these areas.
- 07 January (Day 5): Heavy rainfall is likely at isolated places over Andaman Islands. Cold wave conditions at isolated pockets likely over north Madhya Maharashtra and Gujarat State. Squally winds speed reaching 55-65 Kmph gusting to 75 Kmph likely over Andaman Islands, Andaman Sea and adjoining areas of eastcentral & southeast Bay of Bengal. Sea condition is likely to be rough to very rough over these areas. Fishermen are advised not to venture into these areas. Dense to very dense fog likely at isolated places over Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh and north Rajasthan.
- The weather outlook for the period of seven days *i.e* 03 to 10 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 and Himachal Pradesh. (Fig. 2).

## Agricultural activities (AICRPAM-CRIDA)

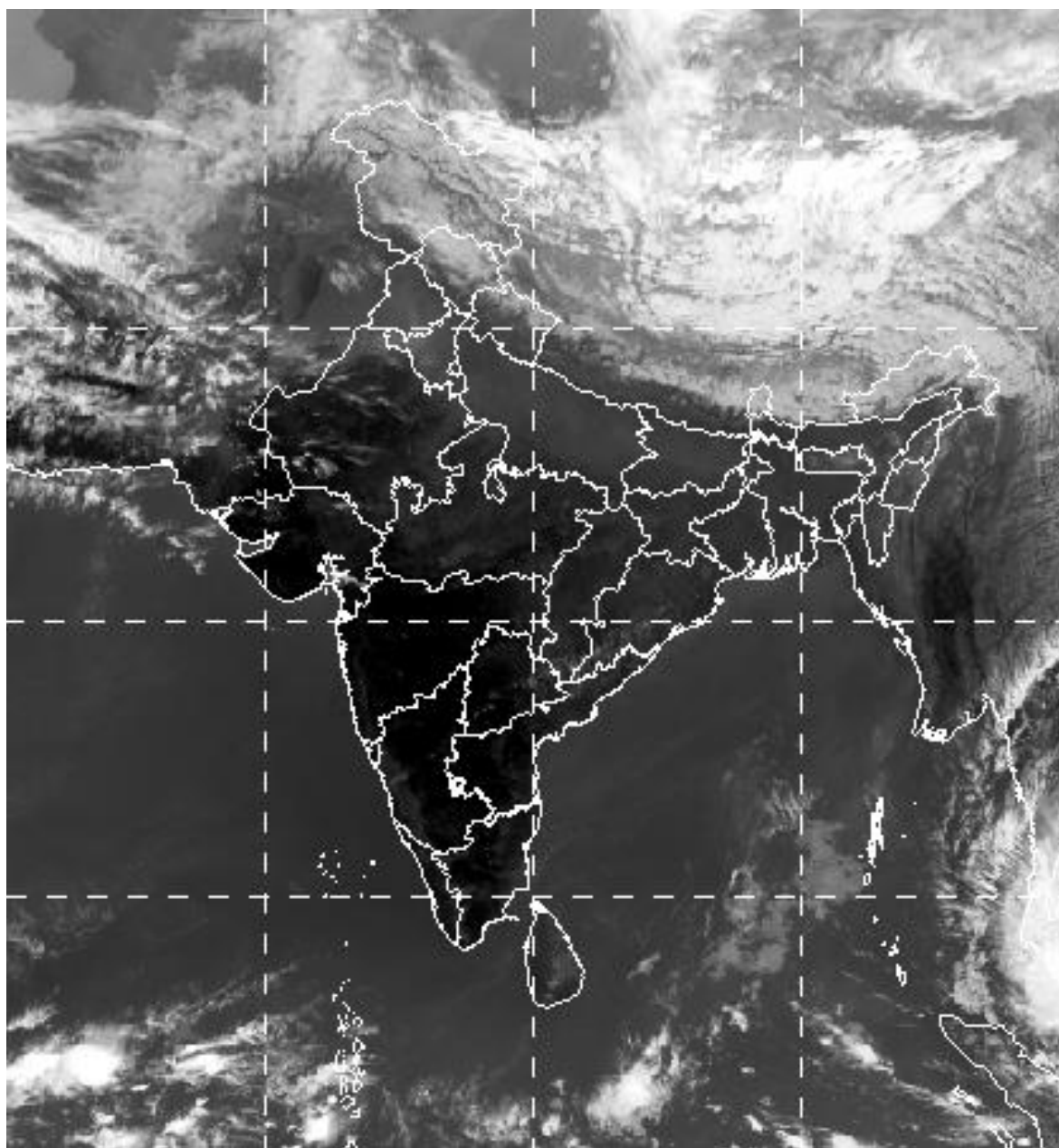
### Chhattisgarh

#### Weather condition:

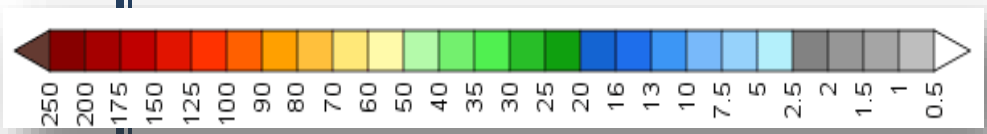
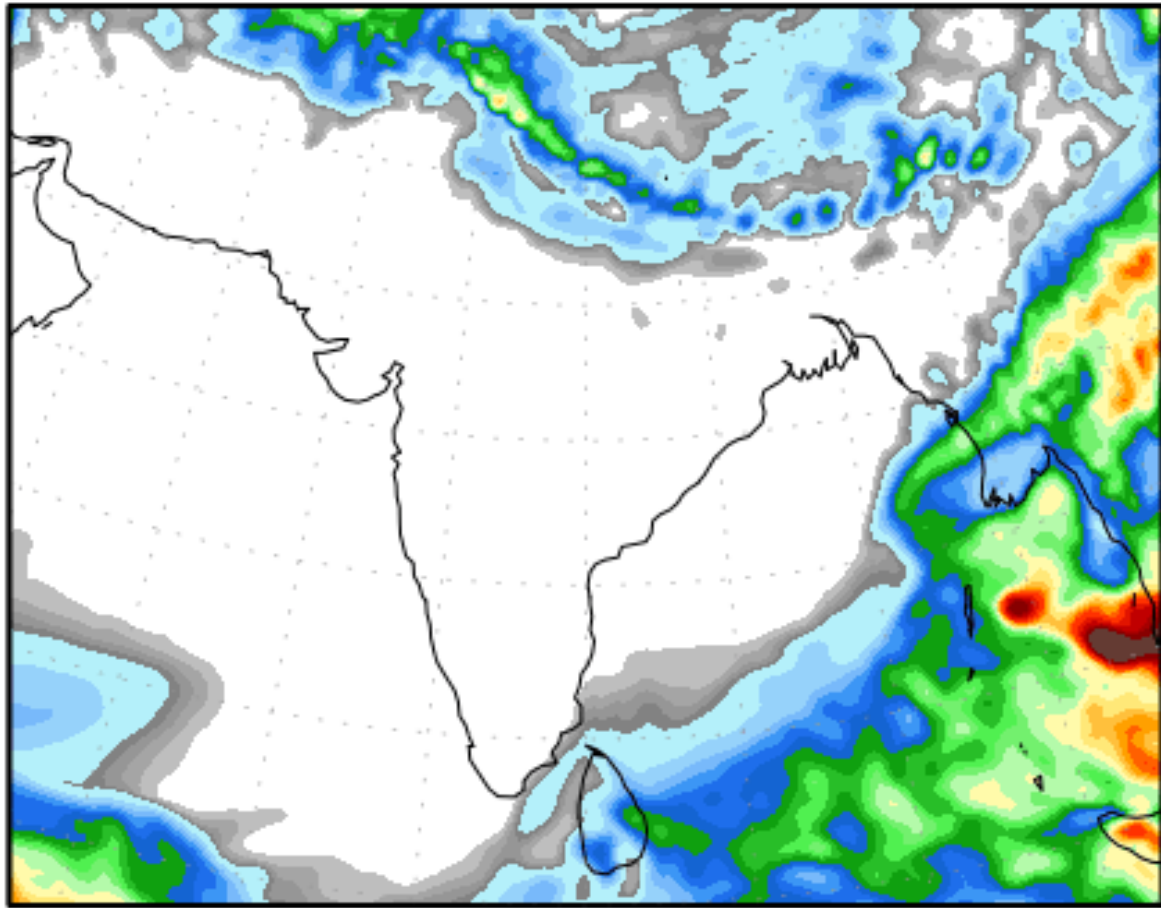
Mainly dry weather prevailed in Chhattisgarh state during past few days.

#### Contingency measure:

- General: Application of first irrigation in 21 days old wheat crop at CRI stage should be done. If Irrigation facilities are available irrigation should be done in gram, lathyrus and lentil crops 40-45 days after sowing. For control of bacterial wilt in chick pea irrigation should be avoided in the field for few days. Looking into continuous cloudy weather there is chance of Aphid attack in oilseed, pulses and vegetables. Therefore do continuous monitoring and spray neem based pesticides when initial outbreak is shown. To spray Indoxacarb @300 gram/ha. dissolve in 500 liter water for control of pod borer in pigeon pea.
- The grain should be stored at 10-14 percent moisture in the godown. The old and new grain should be kept separately, the godown should be insect & rodent proof. They should clean condition around the storage godown and grain should be checked from time to time.
- Vegetables/ Fruit : Uproot bacterial wilt affected plant of Brinjal and Tomato and don't irrigate the field up to 1 week. Formers are advised to follow as this will result in less infestation of bacterial wilt.
- The transplanting of onion nursery should be done, the top one third leaf should be plucked and rest seedling should be transplanted. In guava after plucking of the fruits bahar treatment should be done. For this FYM 20 kg per plant, Urea 100 gram, Potash 150 gram, magnesium sulfate 40 gram and calcium 80 gram per plant should be given. Pruning of the old and disease infected branches of the mango plant should be done.
- Animal husbandry: If windows are not installed in the cattle and poultry house gunny bags should be hanged to prevent cold air. Cattle (milch and non milch) must be fed with mineral mixture @ 25-30g per day. Feed the cattle with dried fodder chaff cutting mixed with legume fodder such as Berseem, Lucerne etc. Provide fresh drinking water to milch animals and avoid extremely cold water.



**Figure: 1. Latest available satellite picture as on 03 January 2019 at 0230 Hrs (IST).  
(Source: IMD).**



**Figure: 2. Precipitation forecast for 03 to 10 January 2019 (Source: NOAA NCEP).**