

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

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

### **Daily Crop Weather Information as on 01 January 2019**

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

*Happy and prosperous New Year - 2019*

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

- An active western disturbance is very likely to cause fairly widespread to widespread rain/snow over western Himalayan region during next 48 hours. Isolated rainfall is also likely over Punjab & northern parts of Haryana. during next 24 hours. Likely cloud cover and enhanced humidity could lead to further gradual increase in night minimum temperatures over parts of northwest India, thereby reducing the severity of cold wave conditions during next 24 hours. However, dense fog conditions are likely to occur during late night to morning hours over these regions, especially on 2nd & 3rd January.
- Another active western disturbance is likely to cause widespread rain/snow with isolated heavy falls over western Himalayan region and scattered to fairly widespread rainfall with isolated hailstorms over parts of Punjab and Haryana, Chandigarh & Delhi during 4th & 5th Jan.
- The severity of cold wave conditions have also reduced over parts of central and adjoining peninsular India and east India at present. However cold wave conditions at isolated pockets are likely to continue over these regions during next 2-3 days.
- A low pressure system is likely to emerge into Andaman Sea around 5th January. Squally winds and rough seas are likely over Andaman Sea and neighboring areas on 4th & 5th January.
- Dense to very dense fog observed at a few places over Punjab and at isolated places over Haryana at 0830 hours IST of today. Visibility:- Ambala-25 M; Amritsar, Ludhiana & Patiala-50 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): Light rain/thundershowers occurred at isolated places over Tamilnadu and

Andaman & Nicobar Islands. Cold Wave conditions occurred at many parts with severe cold wave at isolated pockets over Punjab ; Cold wave conditions in some parts over Haryana, Chandigarh & Delhi, Madhya Maharashtra and East Madhya Pradesh and at isolated pockets over East Rajasthan, Uttar Pradesh, Bihar, Chhattisgarh, Marathawada, Telangana , North Interior Karnataka and Vidarbha. Ground frost occurred at isolated pockets over Punjab, Haryana, Chandigarh & Delhi, East Rajasthan and Madhya Pradesh.

- Maximum temperature departures as on 31-12-2018: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Jammu & Kashmir, Himachal Pradesh, Uttarakhand and West Rajasthan; above normal (1.6°C to 3.0°C) at most places over East Rajasthan and Assam & Meghalaya; at a few places over Saurashtra & Kutch, Konkan & Goa and Lakshadweep and at isolated places over West Madhya Pradesh and Haryana, Chandigarh & Delhi. They were below normal (-1.6°C to -3.0°C) at many places over Bihar, Sub-Himalayan West Bengal & Sikkim, Odisha and Telangana; at a few places over East Madhya Pradesh, Chhattisgarh, Marathawada, Coastal Andhra Pradesh and Andaman & Nicobar Islands; at isolated places over Madhya Maharashtra and Vidarbha and near normal over rest parts of the country.
- The highest maximum temperature of 36.0°C recorded at Mangaluru/Panambur (Coastal Karnataka) over the plains of the country.
- Minimum temperature departures as on 01-01-2019: Minimum temperatures are markedly below normal (-5.1°C or less) at isolated places over Vidarbha, Madhya Maharashtra and Telangana; appreciably below normal (-3.1°C to -5.0°C) at many places over Odisha and Coastal Andhra Pradesh; at a few places over East Madhya Pradesh and North Interior Karnataka; at isolated places over East Rajasthan, West Madhya Pradesh, Saurashtra & Kutch and Rayalaseema; below normal (-1.6°C to -3.0°C) at most places over Uttar Pradesh, Jharkhand, Chhattisgarh, Bihar and Marathwada; at many places over Haryana, Chandigarh & Delhi, Konkan & Goa and Gangetic West Bengal; at a few places over Gujarat; at isolated places over Jammu & Kashmir, Punjab, Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya. They are appreciably above normal (3.1°C to 5.0°C) at isolated places over West Rajasthan and near normal over rest parts of the country.
- The lowest minimum temperature of 0.7°C recorded at Bhatinda (Punjab) over the plains of the country.

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

- 01 January (Day 1): Cold wave conditions in some parts very likely over Madhya Maharashtra & Telangana and at isolated pockets over Punjab, Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Odisha, Marathwada and North

Interior Karnataka. Ground frost conditions very likely at isolated pockets over Uttar Pradesh.

- 02 January (Day 2): Cold wave conditions at isolated pockets very likely over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Madhya Pradesh, Vidarbha, Madhya Maharashtra and Telangana. Ground frost conditions very likely at isolated pockets over Punjab, Haryana, Chandigarh & Delhi and Uttar Pradesh. Dense Fog very likely at many places over Punjab and at isolated places over Haryana, Chandigarh & Delhi, West Uttar Pradesh and Rajasthan.
- 03 January (Day 3): Cold wave conditions at isolated pockets very likely over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh and Rajasthan. Ground frost conditions very likely at isolated pockets over Punjab, Haryana, Chandigarh & Delhi and Uttar Pradesh. Dense Fog very likely at many places over Punjab and at isolated places over Haryana, Chandigarh & Delhi and West Uttar Pradesh.
- 04 January (Day 4): Heavy snowfall likely at isolated places over Jammu & Kashmir and Himachal Pradesh. Hailstorm likely at isolated places over Himachal Pradesh, Uttarakhand and Punjab. Squally winds speed reaching 40-50 Kmph gusting to 60 Kmph likely over Andaman Sea and along & off south Myanmar and Thailand coasts. 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 5): Heavy snowfall likely at isolated places over Jammu & Kashmir and Himachal Pradesh. Hailstorm likely at isolated places over Himachal Pradesh, Uttarakhand and Haryana, Chandigarh & Delhi. Squally winds speed reaching 40-50 Kmph gusting to 60 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.
- The weather outlook for the period of seven days *i.e* 01 to 08 January 2019 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thundershower may occur over Tamilnadu and Andaman & Nicobar islands. (Fig. 2).

## **Agricultural activities (AICRPAM-CRIDA)**

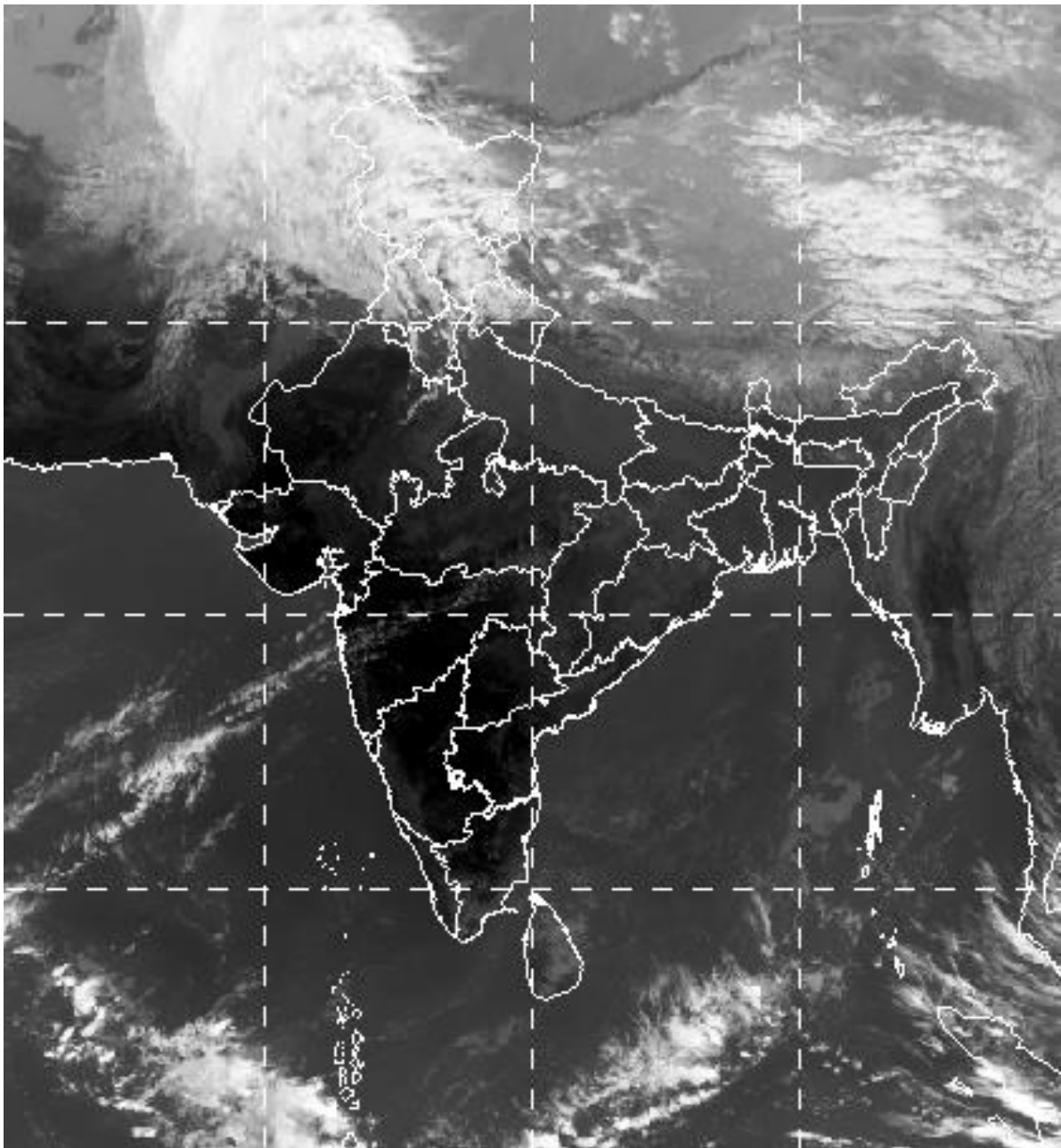
### **Uttarakhand**

#### **Weather condition:**

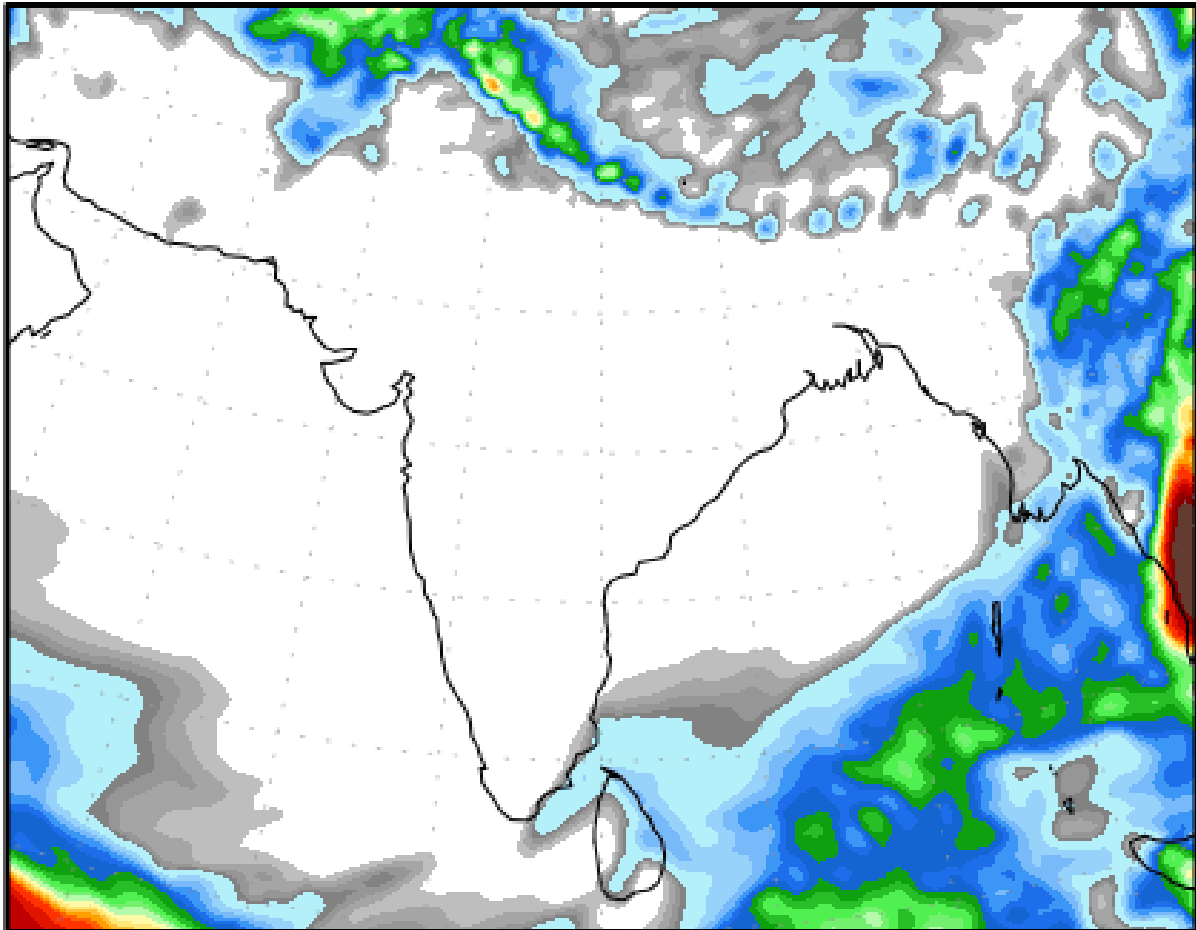
Dry and cool weather prevailed in Uttarakhand state during past few days. The maximum temperature ranged from 6.0 to 10.2°C and minimum temperature ranged from 0.5 to 2.1° C.

### Contingency measure:

- In view of low temperature, Farmers are advised for light irrigation at evening time to protect the crop from probable frost. In wheat crop, which are about 21-25 days old and are in the CRI stage is advised, Second dose of fertilizer (Urea) should be applied 3-4 days after irrigation. Thinning and weeding is recommended in late sown mustard crop. Mulching should be done on Cole crops for conserve soil moisture.
- Apply Urea as foliar spray on Leafy vegetables. Keeping in view of optimum weather conditions, Farmers are advised for transplantation of onion seedling in this week. Seedling should not be older than six weeks. Transplanting should be done in small beds. Deep transplanting should be avoided. Harvest mature fruits of Malta, Galgal/citrus species. Grading/packing should be done before sale. Prepare value added product like squash, RTS.
- Sowing of temperate seed for production of root stock. Prepare layout for establishment of new orchard in temperate zone. Build the basin around main stem of fruit bearing trees and clean the shrubs/herbs/grasses and leaf litter from orchard.
- Dew appearing grasses/herbs should not give to goat/sheep as fodder. Keeping in view low temperature, kept artificial food in beekeeping farm. Protect from cold by covering gunny bags during night and give some sunbath during day time.
- Electric Bulb installed in Chicken farm for maintain temperature during night. Whitewash the walls by calcium oxide (dry lime) to protect harmful bacteria..



**Figure: 1. Latest available satellite picture as on 01 January 2019 at 0230 Hrs (IST).  
(Source: IMD).**



**Figure: 2. Precipitation forecast for 01 to 08 January 2019 (Source: NOAA NCEP).**