

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

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

### **Daily Crop Weather Information as on 18 December 2019**

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

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

- Intensity of cold day conditions has reduced over Punjab, Haryana, Chandigarh & Delhi and Rajasthan due to lifting of low level clouds over the region. However Cold day conditions at isolated pockets are likely to continue over Punjab, Haryana, Chandigarh and West Uttar Pradesh during next 24 hours.
- Cold day to severe cold day conditions are very likely to continue over East Uttar Pradesh and neighborhood during next 24 hours due to persistence of low level clouds over the region. Dense to very dense fog in isolated pockets very likely over south Assam & Meghalaya and Tripura and dense fog in isolated pockets over plains of northwest India and parts of east India during next 48 hours.
- The Western Disturbance as a cyclonic circulation over west Iran & neighbourhood between 3.1 & 5.8 km above mean sea level persists. It is likely to cause isolated to scattered rain/snow over the Western Himalayan Region during 18th-20th December.
- This Western Disturbance is not likely to cause any significant weather over the plains of northwest India.
- The images showing the latest satellite picture in figure. 1.

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

- Rain/Thundershowers observed (from 0830 hours IST to 1730 hours IST of today): at isolated places over Tamil Nadu & Puducherry & Karaikal. Rainfall recorded at 1730 hours IST of today (1 cm or more): No significant amount. Severe Cold Day conditions observed in many pockets over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh and in isolated pockets over Madhya Pradesh. Cold Day conditions observed in isolated pockets over Rajasthan and Bihar.
- Maximum Temperature Departures as on 18-12-2019: Maximum temperatures are above normal (1.6°C to 3.0°C) at many places over Konkan & Goa; at isolated places over Andaman & Nicobar Islands, Lakshadweep, Telangana, Coastal Andhra Pradesh & Yanam, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. They are markedly below normal (- 5.1°C or less) at most places over

Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh and Bihar; at many places over Sub- Himalayan West Bengal & Sikkim; at a few places over Uttarakhand, Himachal Pradesh and East Madhya Pradesh; at isolated places over Jammu & Kashmir and West Madhya Pradesh; appreciably below normal (-3.1°C to -5.0°C) at most places over East Rajasthan; at many places over Gangetic West Bengal; at a few places over West Rajasthan; at isolated places over Gujarat region; below normal (-1.6°C to -3.0°C) at a few places over Saurashtra & Kutch; at isolated places over Madhya Maharashtra, Jharkhand, coastal Odisha and Andaman & Nicobar Islands and near normal over rest parts of the country. Today, the highest maximum temperature of 36.0°C recorded at Manglore (Coastal Karnataka) and Kozhikode (Kerala).

- Minimum Temperature Departures as on 18-12-2019: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at many places over Odisha, Telangana and Madhya Maharashtra; at a few places over Jharkhand and Marathawada; at isolated places over Assam & Meghalaya, Bihar and Konkan & Goa; above normal (1.6°C to 3.0°C) at many places over Coastal Andhra Pradesh; at a few places over Sub-Himalayan West Bengal & Sikkim and Rayalaseema; at isolated places over East Uttar Pradesh, Coastal Karnataka, Tamilnadu, Puducherry & Karaikal, Andaman & Nicobar Islands and Lakshadweep. They are markedly below normal (-5.1°C or less) at isolated places over Jammu & Kashmir; appreciably below normal (- 3.1°C to -5.0°C) at isolated places over Himachal Pradesh, Rajasthan, Madhya Pradesh and Saurashtra & Kutch; below normal (-1.6°C to -3.0°C) at isolated places over Haryana, Chandigarh & Delhi and near normal over rest parts of the country. The lowest minimum temperature of 2.5°C recorded at Narnaul (Haryana) over plains of the country.

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

- 18 December (Day 1): Cold day conditions in some pockets with severe cold day in isolated pockets very likely over Uttar Pradesh and Madhya Pradesh; Cold day conditions in some pockets over Punjab, Haryana, Chandigarh & Delhi and in isolated pockets over Uttarakhand, north Rajasthan, Chhattisgarh, Bihar and Sub-Himalayan West Bengal & Sikkim. Cold wave conditions very likely in isolated pockets over Punjab, Haryana, Chandigarh & Delhi and East Rajasthan. Dense to very dense fog very likely in isolated pockets over Punjab, Haryana, Chandigarh & Delhi, south Assam & Meghalaya and Tripura; dense fog in isolated pockets over Uttarakhand, Uttar Pradesh, Rajasthan, West Madhya Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim and Odisha in the morning hours.

- 19 December (Day 2): Cold day conditions in some pockets with severe cold day in isolated pockets very likely over East Uttar Pradesh; Cold day conditions in some pockets over West Uttar Pradesh and in isolated pockets over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Madhya Pradesh, Chhattisgarh, Bihar and Sub-Himalayan West Bengal & Sikkim. Cold wave conditions very likely in isolated pockets over Punjab and Haryana, Chandigarh & Delhi. Dense to very dense fog very likely in isolated pockets over south Assam & Meghalaya and Tripura; dense fog in isolated pockets over Punjab, Haryana, Chandigarh & Delhi, Uttarakhand, Uttar Pradesh, Rajasthan, West Madhya Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim and Odisha in the morning hours.
- 20 December (Day 3): Dense fog in isolated pockets very likely over Punjab, Haryana, Chandigarh & Delhi, Uttarakhand, Uttar Pradesh, south Assam & Meghalaya and Tripura in the morning hours. Heavy rainfall very likely at isolated places over Tamilnadu, Puducherry & Karaikal.
- 21 December (Day 4): Dense fog in isolated pockets likely over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, south Assam & Meghalaya and Tripura in the morning hours.
- 22 December (Day 5): Dense fog in isolated pockets likely over Punjab and Haryana, Chandigarh & Delhi in the morning hours.
- The weather outlook for the period of seven days i.e., 18 to 26 Dec 2019 forecasted (Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>) rain/thundershower may occur over Some parts of Extreme northern parts of India. (Fig. 2).

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

### **Andhra Pradesh**

#### **Weather condition:**

The maximum temperature range between 27.6-33.4 and minimum temperature range between 18.7-24. Dry weather prevailed during last few days.

#### **Contingency measure:**

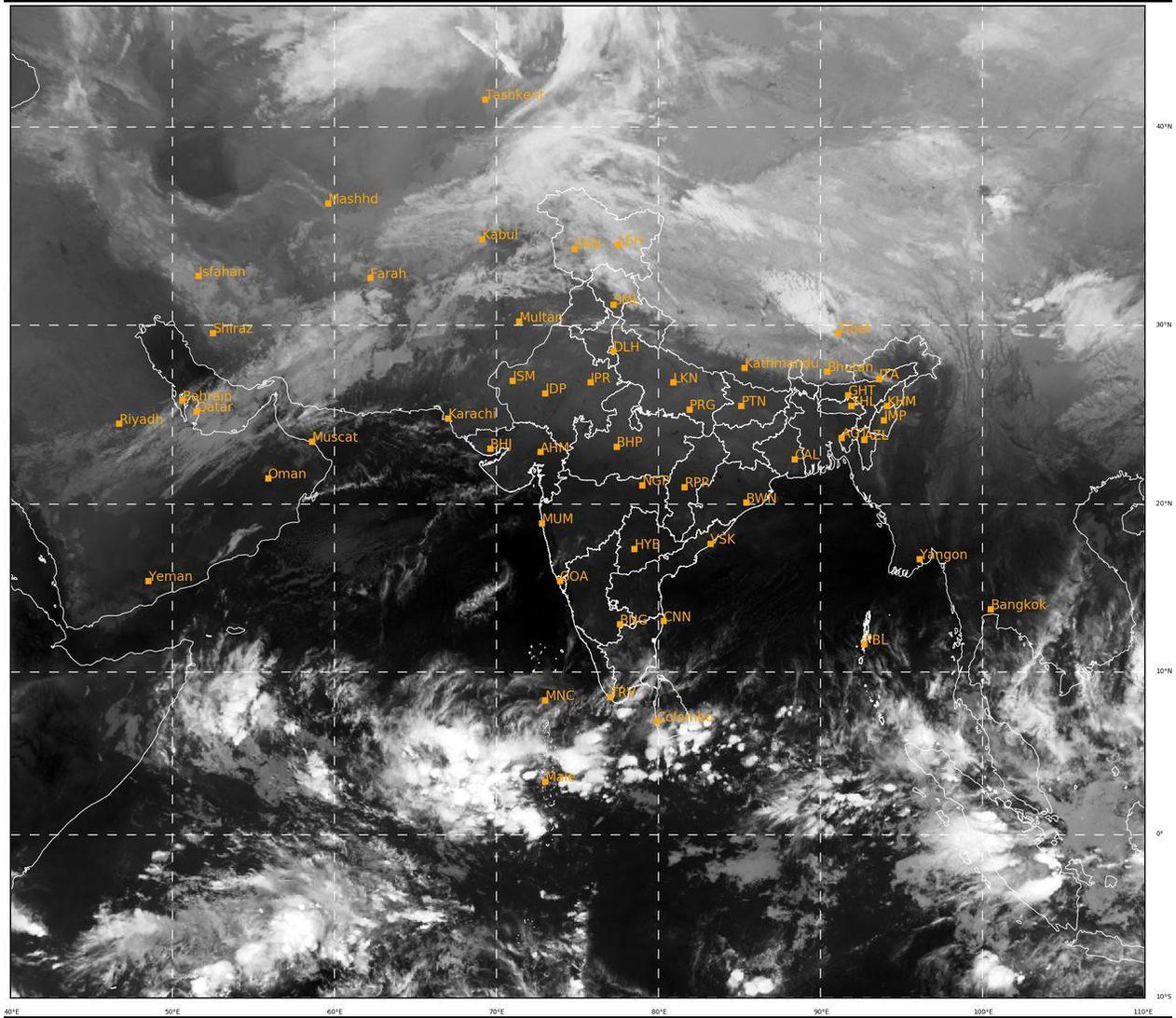
- Groundnut Farmers are advised to take up sowing of rabi groundnut during November 15 - December 15, where water is available. Farmers are advised to Select high yielding K6, Dharani and Narayani varieties and sow them at a distance of 22.5 \* 10 cm and advised to follow the seed treatment with 3 g mancozeb Imidachloprid 600 F.S or thiomithaxam @ 2 ml. + 4 ml. water per kg of

Seed Bengal gram In present weather conditions helicoverpa incidence is observed in bengalgram.for control spray neem oil @5 ml/l or chloropyriphos@2.5ml/l or acephate 1g/l or Rinoxypyr 0.2 ml/l

- green gram Present weather conditions are favourable for incidence of spotted pod borer and rust in green gram.To control spray Thiodicarb @1 g/l or novaluran 1 ml/l Chlorantriliniprole @0.3ml/l per litre of water .To control rust spray to control rust spray chlorothalonil 2 g./L or hexaconazole 1 g/l of water
- Cotton The present weather conditions are favourable for pink ball worm and jassids incidence in cotton. To control pink ball worm spray chloripyriphos @2.5 ml/l or prophenophos @2ml/l Thiodicarb@1.5 g/l and to control jassids spray monocrotophos @1.6 ml/l ,acephate @1.5 g/l of water
- Red gram For the flowering stage crop spray 5% NSKE as a preventive spray against maruca.

SAT : INSAT-3D IMG  
IMG\_TIR2 12.0 um  
LIC Mercator

18-12-2019/(1630 to 1656) GMT  
18-12-2019/(2200 to 2226) IST

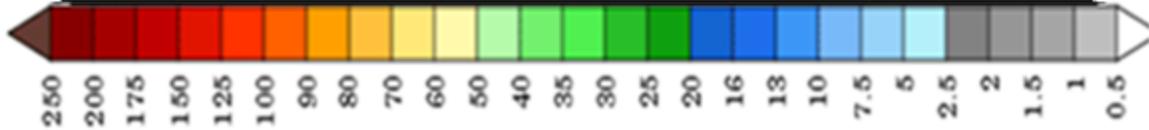
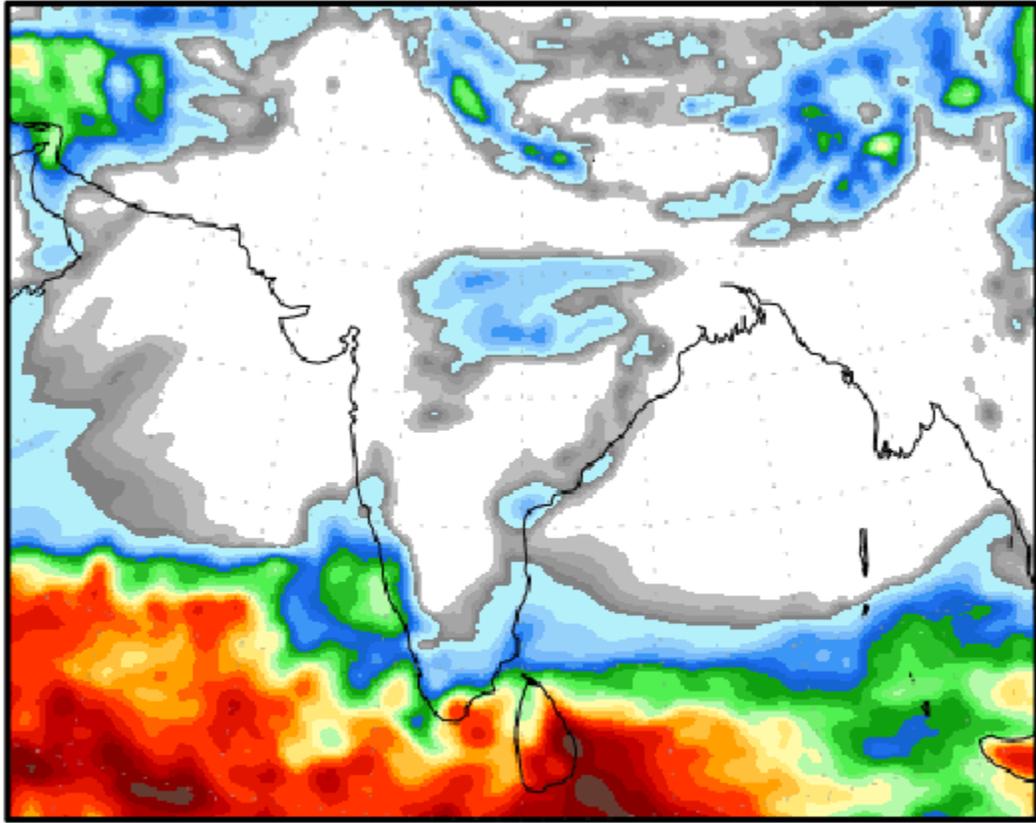


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IMD, DELHI

Figure: 1. Latest available satellite picture as on 18 December 2019 at 2030 Hrs (IST).  
(Source: IMD).



**Figure:2. Precipitation forecast for 18 to 26 December 2019 (Source: NOAA NCEP).**

*Disclaimer: The predictability of weather depends on many factors which are dynamic in nature. The success of Agromet advisories provided here depends on the accuracy of the forecasts. In no event will India Meteorological Department (IMD) and Indian Council of Agricultural Research (ICAR) be liable to the user or to any third party for any direct, indirect, incidental, consequential, special or exemplary damages or lost profit resulting from any use or misuse of the information on this bulletin.*