

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

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

### **Daily Crop Weather Information as on 30 January 2020**

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

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

- Mainly dry weather likely to prevail over the country except northeastern and eastern parts of India where scattered to fairly widespread rainfall may occur during next 2 days.
- Dense fog very likely at isolated places over plains of northwest India and east India during next 2 days.
- The images showing the latest satellite picture in the figure. 1.

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

- Rain/Thundershowers observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at most places over Uttarkhand; at many places over Gangetic West Bengal; at a few places over Jammu & Kashmir and at isolated places over Himachal Pradesh, West Rajasthan, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Madhya Pradesh, Jharkhand, Bihar, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Odisha and Assam & Meghalaya.
- Dense fog observed at isolated places over Haryana and moderate fog at isolated place over West Madhya Pradesh at 0830 hours IST of today.
- Visibility recorded at 0830 hours IST of today (in meter): Hissar and Panagarh-25 each; Amritsar, Karnal, Bhiwani, Tikamgarh and Gwalior Airport-50 each; Cooch Behar, Bankura, Guna and Delhi (Palam)-200 each.
- Maximum Temperature Departures as on 29-01-2020: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Rayalaseema; above normal (1.6°C to 3.0°C) at most places over Lakshadweep; at many places over south interior Karnataka, Kerala, Coastal Andhra Pradesh & Yanam and Tamil-Nadu, Karaikal & Puducherry; at a few places over Odisha; They were markedly below normal (-5.1°C or less) at many places over Uttarakhand; appreciably below normal (-3.1°C to -5.0°C) at a few places over Gujarat, Madhya Maharashtra, Konkan & Goa, Himachal Pradesh and West Uttar Pradesh; and at isolated places over Jammu & Kashmir and Sub-Himalayan West Bengal & Sikkim; and below normal (-1.6°C to -3.0°C) at most places over West Madhya

Pradesh and Haryana, Chandigarh & Delhi; at a few places over East Madhya Pradesh, Marathwada, Vidarbha and Gangetic west Bengal; and at isolated places over Assam & Meghalaya and East Rajasthan and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 37.2°C was recorded at Karwar (Coastal Karnataka).

- Minimum Temperature Departures as on 30-01-2020: Minimum temperatures are markedly above normal (5.1°C or more) at many places over Jharkhand; at isolated places over Gangetic West Bengal and Odisha; appreciably above normal (3.1°C to 5.0°C) at a few places over Chhattisgarh; at isolated places over East Uttar Pradesh, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam, Rayalaseema and Tamil-Nadu, Puducherry & Karaikal; above normal (1.6°C to 3.0°C) at a few places over East Madhya Pradesh and South Interior Karnataka; at isolated places over West Rajasthan, West Madhya Pradesh and Kerala & Mahe. They are appreciably below normal (-3.1°C to -5.0°C) at a few places over Saurashtra & Kutch; at isolated places over Jammu & Kashmir and Konkan & Goa; below normal (-1.6°C to -3.0°C) at many places over Vidarbha; at a few places over Uttarakhand and West Madhya Pradesh; at isolated places over Himachal Pradesh, East Rajasthan, Haryana, Chandigarh & Delhi, Gujarat region and Madhya Maharashtra and near normal over rest parts of the country. The lowest minimum temperature of 3.5°C recorded at Sikar (East Rajasthan) over plains of the country.

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

- 30 January (Day 1): Dense fog very likely at isolated places over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, north Madhya Pradesh, Bihar, Gangetic West Bengal and Odisha. Thunderstorm accompanied with lightning likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Sub-Himachal West Bengal & Sikkim. Cold wave conditions very likely at isolated places over Saurashtra & Kutch.
- 31 January (Day 2): Dense fog very likely at isolated places over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh and Odisha. Thunderstorm accompanied with lightning very likely at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Cold wave conditions very likely at isolated places over Saurashtra & Kutch.
- 01 February (Day 3): Dense fog likely at isolated places over Uttar Pradesh. Thunderstorm accompanied with lightning likely at isolated places over Chhattisgarh and Sub-Himalayan West Bengal & Sikkim.
- 02 February (Day 4): No weather warning.

- 03 February (Day 5): No weather warning.
- The weather outlook for the period of seven days i.e., 30 Jan to 07 Feb 2020 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)**

### **Tamil Nadu**

#### **Weather condition:**

General weather situation at Kovilpatti (04th Meteorological Standard Week): Maximum temperature: 33.1°C (normal 32.4°C), minimum temperature: 19.7°C (normal 17.8°C), rainfall: 0.0 mm (normal 2.0 mm). The Maximum temperature was 0.7°C above normal, minimum temperature was 1.9°C above normal and rainfall was 2.0 mm below normal across the week. General weather situation in Tamil Nadu: Maximum temperature range of 29°C - 34°C prevailed over the state except Kodaikanal and Uthagamandalam (17°C - 22°C) during the period under report. Minimum temperature range of 18°C - 27°C prevailed over the state except Kodaikanal and Uthagamandalam (07°C - 10°C) during the period under report. With respect to daily rainfall, rainfall occurred at isolated places over Tamil Nadu from 22.1.2020 to 24.1.2020 and dry weather prevailed over Tamil Nadu from 25.1.2020 to 27.1.2020 during this week.

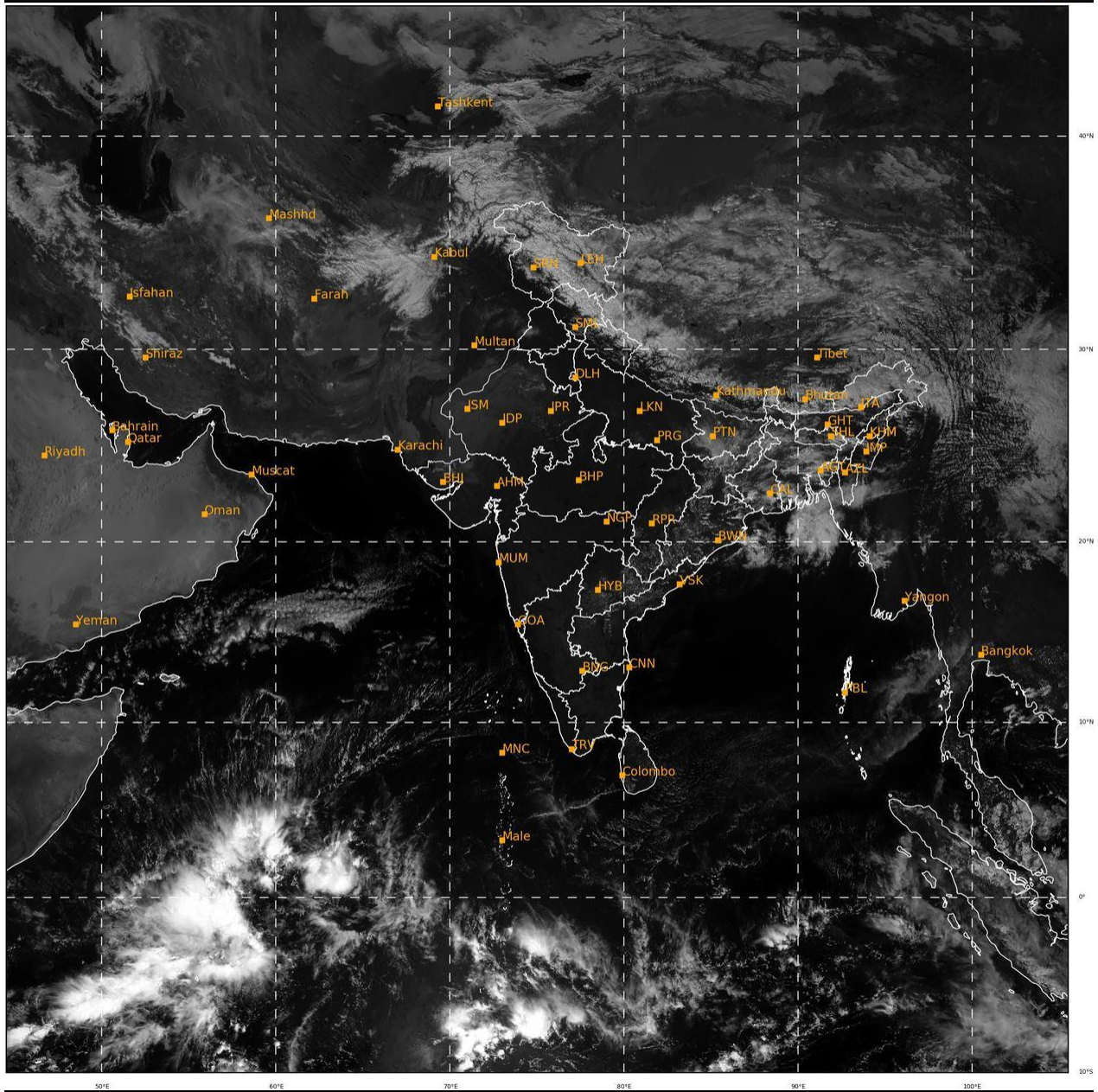
#### **Contingency measure:**

- Agromet advisories in relation to the anticipated weather having no rainfall, low to moderate cloud cover, morning Relative Humidity-high and evening Relative Humidity- moderate.
- Crops: Cloud cover and RH- Prevailing weather is conducive for pest and disease incidence. Monitor the field regularly and give plant protection as preparatory measure.
- Harvest: Dry weather condition to be prevail in coming week. Crop such as Maize, Sorghum to be harvested and threshing to be done.
- Irrigated crops: Irrigation: Irrigated crops may be irrigated.
- Cotton: Square formation to boll development stage. Due to continuous rainfall shedding of flower and boll squares is noticed. To control topping (pinching of terminal bud) to be practised to arrest the vegetative growth (or) spray 40 ppm NAA(Napthalene Acetic Acid) at flowering and one month after first spray. Prevailing weather is conducive for boll worm. To control Quinalphos 25 EC 2.0 l/ha (or) Phosalone 35% EC 2000 ml/ha.

- Livestock: Do not allow the sheep/goat and cattle to graze in the early morning hours since the chill weather may cause pneumonia. Young animals couldn't tolerate the cool weather; hence the house may be kept in the warm condition.
- Jasmine: Flowering stage: Prevailing weather is conducive factors for the rapid multiplication of the pest Budworm & Leaf roller. To control spray Neem Seed Kernal, Extract 5% or malathion 50EC 2ml/lit.
- Livestock: Anthrax Livestock Disease Forecast of February month - Very High Risk. Preventive Measures: Ring vaccination and report of disease is advised . Vaccination to be done in consultation with the veterinarians and as decided by state animal husbandry authorities. Strict bio-security measures May be followed. Carcass May be disposed by deep burying covered with lime powder. Contaminated area May be disinfected with 4% formalin or 10% caustic soda. Grazing area May be restricted.
- Rice: Panicle initiation to Milking stage- Prevailing weather is conducive factors for the rapid multiplication of the pest.
- Leaf folder: Spray Azadirachtin 0.03% 1000 ml/ha (or) spray any one the following insecticide Chlorpyrifos 20 EC @ 1250 ml/ha (or) Chlorantraniliprole 18.5% SC @150 g/ha. Gall midge- ETL: 10% silver shoots- Chlorpyrifos 20% EC 1250 ml/ha (or) Thiamethoxam 25% WG 100 g/ha.
- Chilli: Fruiting stage: Thrips incidence was noticed in chilli. The affected plants show symptoms of crinkling and upward curling of leaves and elongation of petiole. For controlling this pest spray imidachloprid 17.8 % SL @ 3 ml/ 10 litre of water or Dimethoate 30 % EC @1.0 ml/lit.
- Gram Caterpillar: Helicoverpa armigera infestation is noticed. To control spray any one of the following insecticides Emamectin benzoate 5 % SG @ 4 g/10 lit. (or) Spinosad 45 % SC @ 3.2 ml/10 lit.

SAT : INSAT-3D IMG  
Visible Count 0.65 um  
L1C Mercator

30-01-2020/(0800 to 0827) GMT  
30-01-2020/(1330 to 1357) IST

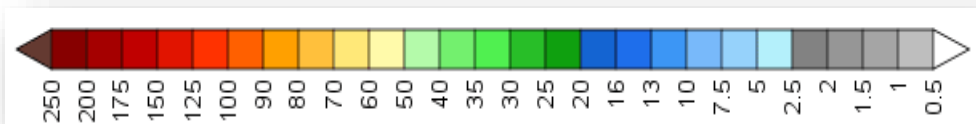
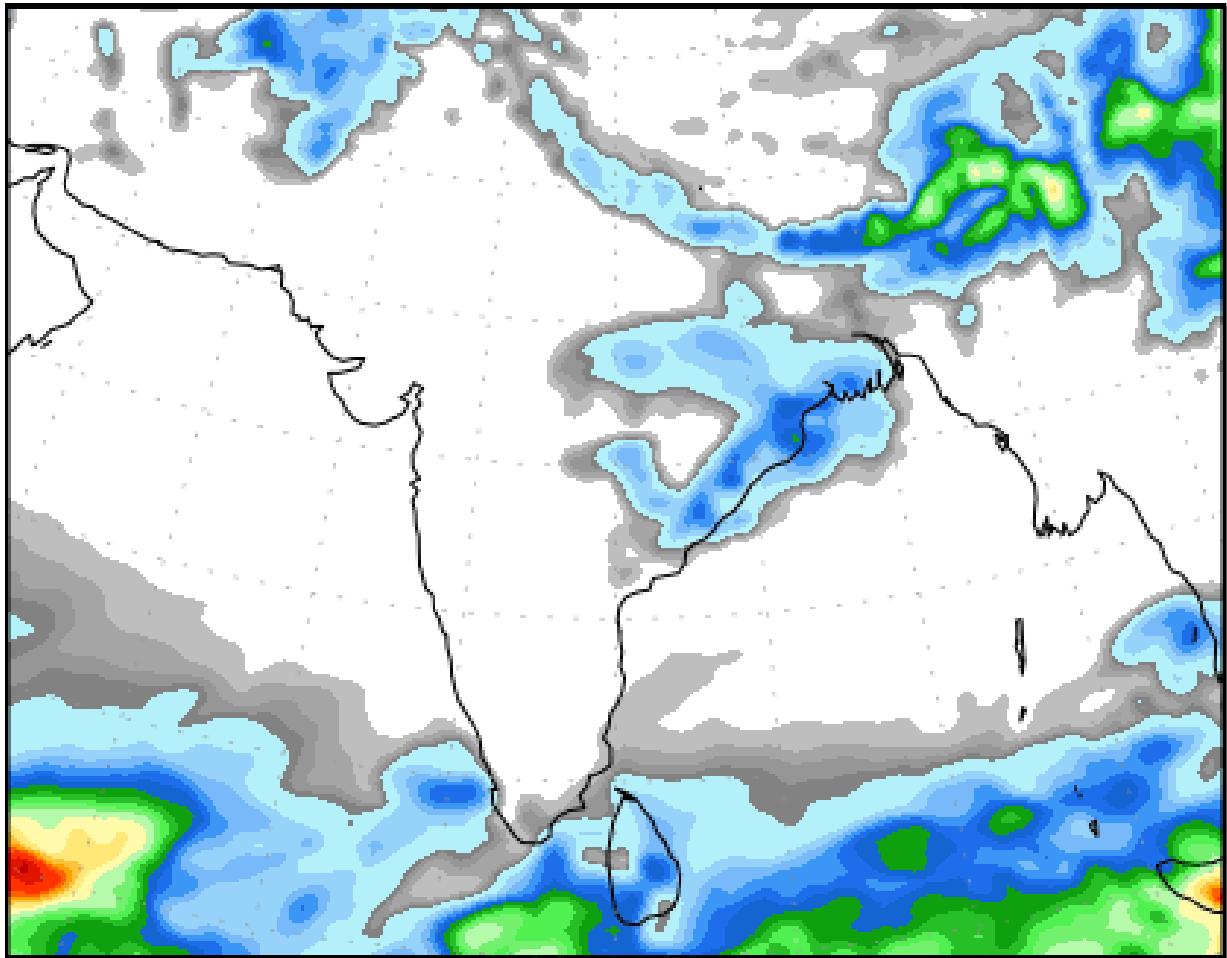


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IMD, DELHI

**Figure: 1. Latest available satellite picture as on 30 January 2020 at 1357 Hrs (IST). (Source: IMD).**



**Figure:2. Precipitation forecast for 30 Jan to 07 Feb 2020 (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.*