

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

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

### **Daily Crop Weather Information as on 27 January 2022**

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

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

- The Western Disturbance as a cyclonic circulation lies over northwest Uttar Pradesh in lower tropospheric levels.
- A trough runs from south Tamilnadu to South Interior Karnataka in lower tropospheric levels.
- A fresh feeble Western Disturbance is very likely to affect Western Himalayan Region from 29th January and another Western Disturbance likely to affect Northwest India from 02nd February, 2022. Forecast & Warnings:
  - i) Isolated rainfall very likely over Sub-Himalayan West Bengal & Sikkim on 27th & 28th January and isolated light rainfall over Andaman & Nicobar Islands during next 5 days.
  - ii) Scattered light/moderate rainfall very likely over Northeast India during 27th & 28th January and dry weather thereafter.
  - iii) Isolated light rainfall very likely over South Interior Karnataka during next 24 hours; over Coastal Andhra Pradesh-Yanam, Rayalaseema & Kerala-Mahe during next 2 days and over Tamilnadu-Puducherry-Karaikal during next 5 days.
  - iv) Under the influence of a fresh Western Disturbance from 29th January, 2022, light isolated rainfall/snowfall is likely over Western Himalayan Region on 29th & 30th January, 2022.
- Dense Fog conditions very likely over Sub-Himalayan West Bengal-Sikkim during 28th-30th and abates thereafter.
- Cold Day/Severe Cold Day conditions in isolated/some parts very likely over Madhya Pradesh during next 24 hours and gradually abates thereafter.
- Cold wave conditions in isolated pockets very likely over Vidarbha, north Madhya Maharashtra, Marathwada and Gujarat state during next 24 hours; over Punjab, Haryana-Chandigarh-Delhi, north Rajasthan, Madhya Pradesh, Odisha and Chhattisgarh during next 2-3 days.
- The images showing the latest satellite picture in the figure. 1.

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

- Rainfall/thundershower observed (from 0830 hours IST to 1730 hours IST of Yesterday): at many places over Uttarakhand and Arunachal Pradesh; at a few places over Himachal Pradesh and at isolated places over Jammu & Kashmir, Ladakh, Gilgit Baltistan & Muzaffarabad, Jharkhand, West Bengal & Sikkim, Assam & Meghalaya and Tamil Nadu, Puducherry & Karaikal.
- Thunderstorm accompanied lightning observed (from 0830 hours IST of yesterday to 0530 hours IST of today): at isolated places over Uttarakhand.
- Cold Day conditions in many parts with Severe Cold Day in some parts prevailed over West Madhya Pradesh; Cold Day conditions in many parts with Severe Cold Day in isolated pockets over Uttar Pradesh and East Madhya Pradesh; Cold Day to Severe Cold Day conditions in isolated pockets over Uttarakhand and Cold Day conditions in many parts over Haryana, Chandigarh & Delhi and East Rajasthan; in isolated pockets over Madhya Maharashtra.
- Cold Wave conditions prevailed in isolated pockets over West Madhya Pradesh, Gujarat State and East Rajasthan.
- Fog observed (at 0530 hours IST of today): Dense to very dense fog in isolated pockets of West Punjab, Chandigarh and Uttar Pradesh and shallow to Moderate fog in isolated pockets of Himachal Pradesh, East Punjab, Haryana & Delhi, Uttarakhand and East Assam & Meghalaya.
- Minimum Temperature Departures (as on 26-01-2022): Minimum temperatures were markedly above normal (5.1 or more) at a few places over Bihar; appreciably above normal (3.1°C to 5.0°C) at many places over Jharkhand Gangetic West Bengal, Rayalaseema and at a few places over Andaman & Nicobar islands; above normal (1.6°C to 3.0°C) at most places over Assam & Meghalaya; at many places over Punjab, Uttarakhand and Coastal Andhra Pradesh; at a few places over Jammu & Kashmir, Ladakh-Gilgit, Baltistan, Muzaffarabad, Odisha and at isolated places over Himachal Pradesh. They were markedly below normal (-5.1 or less) at a few places over West Madhya Pradesh and at isolated places over East Rajasthan and East Madhya Pradesh; appreciably below normal (3.1°C to 5.0°C) at many places over Gujarat State, Marathwada, Konkan & Goa and Vidarbha; at a few places over Lakshdweep and below normal (-1.6°C to -3.0°C) at many places over Haryana, Chandigarh & Delhi, West Uttar Pradesh and West Rajasthan; at a few places over East Uttar Pradesh, North Interior Karnataka and Coastal Karnataka and at isolated places over Telangana and near normal over rest parts of the country. Yesterday, the Lowest minimum temperature of 2.4°C was reported at Pachmarhi (West Madhya Pradesh) over the plains of the country.

- Maximum Temperature Departures (as on 26-01-2022): Maximum temperatures were above normal (1.6°C to 3.0°C) at a few places over Tamilnadu, Puducherry & Karaikal; at isolated places over Kerala & Mahe. They were markedly below normal (-5.1°C or less) at many places over Madhya Pradesh, Vidarbha and Jharkhand; at a few places over Himachal Pradesh, Haryana, Chandigarh & Delhi, Uttar Pradesh, Nagaland, Manipur, Mizoram & Tripura and Arunachal Pradesh; at isolated places over East Rajasthan, Gujarat Region and Gangetic West Bengal; appreciably below normal (-3.1°C to -5.0°C) at most places over Uttarakhand, Chhattisgarh and Marathwada; at many places over Bihar and Madhya Maharashtra; at a few places over Saurashtra & Kutch and Telangana; at isolated places over Punjab, Sub-Himalayan West Bengal & Sikkim, Odisha, Konkan & Goa, North Interior Karnataka and Coastal Andhra Pradesh & Yanam; below normal (-1.6°C to -3.0°C) at most places over West Rajasthan; at a few places over Coastal Karnataka and Andaman & Nicobar Islands; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and near normal at rest parts of the country. Yesterday, the highest maximum temperature of 35.2°C reported at Kottayam (Kerala).

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

- 27 January (Day 1): Dense Fog very likely in isolated pockets over East Uttar Pradesh & Chhattisgarh. Cold Day to Severe Cold Day conditions very likely in some parts of West Madhya Pradesh and Cold Day conditions in some parts over East Madhya Pradesh and in isolated pockets over Himachal Pradesh, Uttarakhand and Uttar Pradesh. Cold Wave to Severe Cold Wave conditions in isolated pockets very likely over Rajasthan and West Madhya Pradesh and Cold Wave conditions in isolated pockets over Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, north Madhya Maharashtra, Marathwada and Gujarat State. Strong Wind (speed reaching 40-50 kmph) very likely over Gulf of Mannar and Comorin area. Fishermen are advised not to venture into these areas. Cold Day conditions in isolated pockets very likely over Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, Rajasthan, Uttar Pradesh, Vidarbha, north Madhya Maharashtra, Chhattisgarh and Marathwada during next 24 hours and gradually abates thereafter.
- 28 January (Day 2): Dense Fog very likely in isolated pockets over Sub-Himalayan West Bengal & Sikkim. Cold Day conditions very likely in some parts of West Madhya Pradesh and; in isolated pockets over East Madhya Pradesh. Cold Wave to Severe Cold Wave conditions in isolated pockets very likely over Rajasthan and

Cold Wave conditions in isolated pockets over Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh, Madhya Pradesh, Chhattisgarh and Odisha. Strong Wind (speed reaching 40-50 kmph) very likely over Gulf of Mannar and Comorin area. Fishermen are advised not to venture into these areas.

- 29 January (Day 3): Dense Fog in isolated pockets likely over Sub-Himalayan West Bengal & Sikkim. Cold Wave conditions in isolated pockets likely over Madhya Pradesh and Odisha.
- 30 January (Day 4): Dense Fog in isolated pockets likely over Sub-Himalayan West Bengal & Sikkim. Cold Wave conditions in isolated pockets likely over Odisha.
- 31 January (Day 5): Dense Fog in isolated pockets likely over Sub-Himalayan West Bengal & Sikkim. Cold Wave conditions in isolated pockets likely over Odisha.
- The weather outlook for seven days i.e., 27 Jan to 04 Feb 2022 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)**

### **Assam**

#### **Weather condition:**

Weather during the last week was mainly partly cloudy. Daily average maximum temperature was 23.7°C which was 2.0 above normal and the average daily minimum temperature was 9.6°C which was 1.5 below normal for the week. Total BSSH was 34.0 hrs with an average of 4.8 hrs. The daily average evaporation rate was 1.4 mm/day and the average daily wind speed during the week 1.4 kmph. Daily average RH during morning and afternoon hour was 99.0% and 51.0% respectively.

#### **Contingency measure:**

- Boro rice: Transplanting of Boro varieties like Jyotiprasad, Bishnuprasad, Kanaklata, Dinanath Joymoti etc. is suggested to complete within this month. Seedlings with 4-5 leaves are suitable for transplanting. In case of low laying areas with standing water, application of 18 kg SSP and 4 Kg MOP before transplanting has been recommended. In case irrigated Boro rice cultivation, apply 6 kg of Urea, 27 kg of SSP and 6 Kg of MOP before transplanting of the crop.
- Tomato: Incidence of fungal wilt disease may be observed in tomato crop. Farmers were advised to drench the soil with Saaf @ 2.5 g/lit of water for control

the disease.

- Water Melon: Farmers must continue sowing of recommended varieties like New Hampshire, Midget, Asahi Yamoto, Pusa Bedana, Sugar Baby and Faizabadi etc. Seed rate is 66.7g/bigha. Maintain 2.5 m distance in between rows and 2.0 m in between plants. Apply 3.3 t FYM, 17.6 kg Urea, 33.6 kg SSP and 13.6 kg MOP/bigha as basal.
- Rapeseed: As the night temperature is about to decrease in the coming days, It is advised to the farmers to visit the rapeseed crop field regularly to inspect aphid attack, as aphid infests in the border rows of the field first and then migrates to inner parts of the field. Pluck and destroy the infested twigs from the border rows 2-3 times at 10 days intervals, which is very useful to prevent the further multiplication in the crop season.
- Potato: Prevailing cloudy weather condition is favourable for development of late blight disease in potato and tomato. Therefore farmers are advised to spray the crop with Mancozeb @ 0.25% (25 g in 10 lit of water) as prophylactic measures against late blight. At the time of earthing up Mustard oil-cake @ 150 kg/ha may be applied to reduces red ant and white ant infestation to a great extent.
- Common fish: In every month, fish grower farmers are advised to apply the Cowdung @135 kg/bigha, lime @20kg/bigha and fertilizers like Urea & SSP@ 3.5 kg & 2.5 kg per bigha in the pond for providing the essential needed nutrients to enhance the natural productivity through production of aquatic biota, which serve either directly or indirectly as the food of fishes.
- Poultry: Vaccinate the 1 month old ducklings with cholera vaccine in order to immunize them against avian cholera. Install gunny bags or plastic sheath curtains on the side walls of shed to reduce wind chilling effect. Care should be taken not to restrict ventilation.



SAT : INSAT-3D IMG  
IMG\_TIR1 10.8 um  
L1C Mercator

27-01-2022/(0800 to 0827) GMT  
27-01-2022/(1330 to 1357) IST

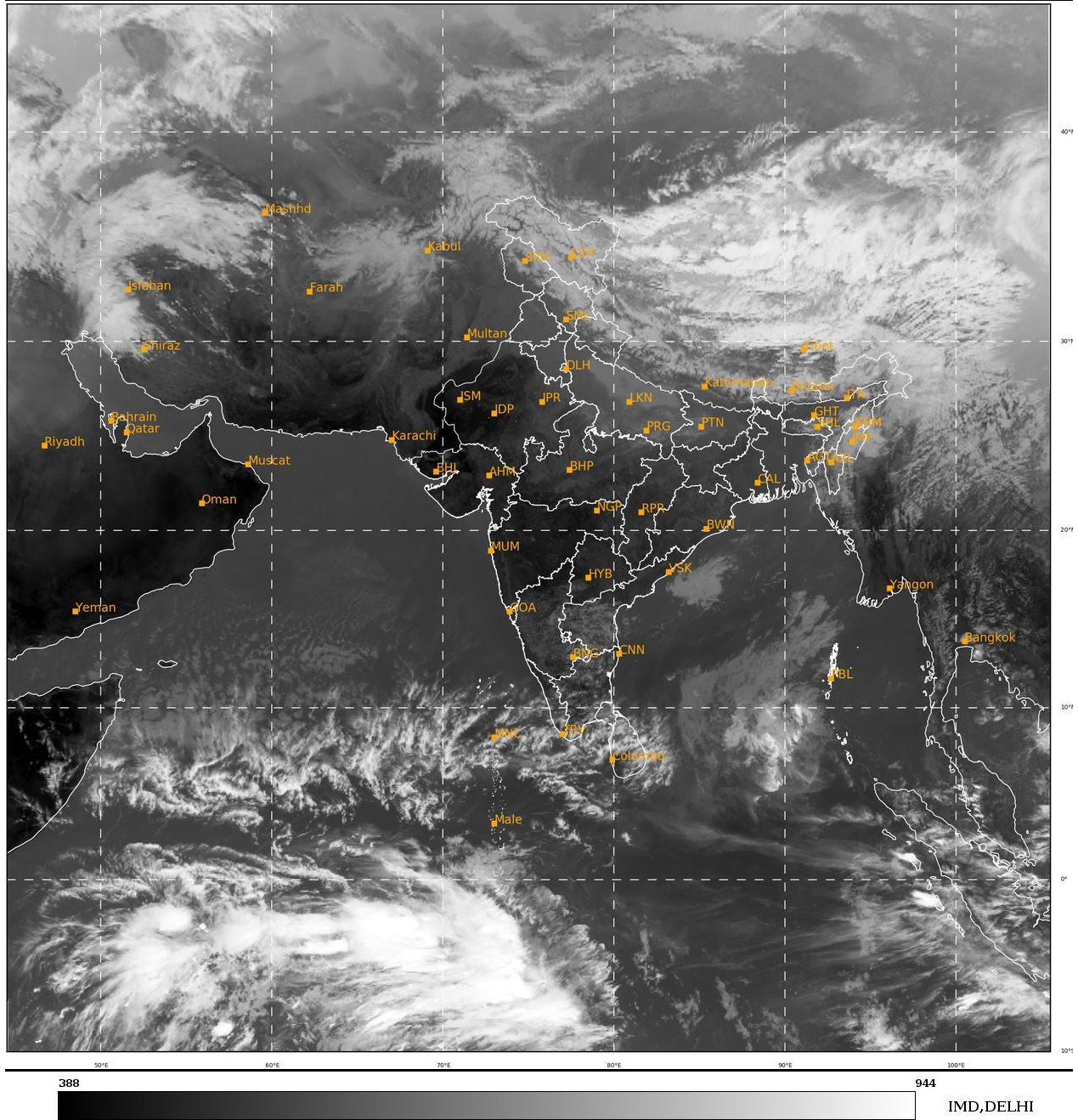
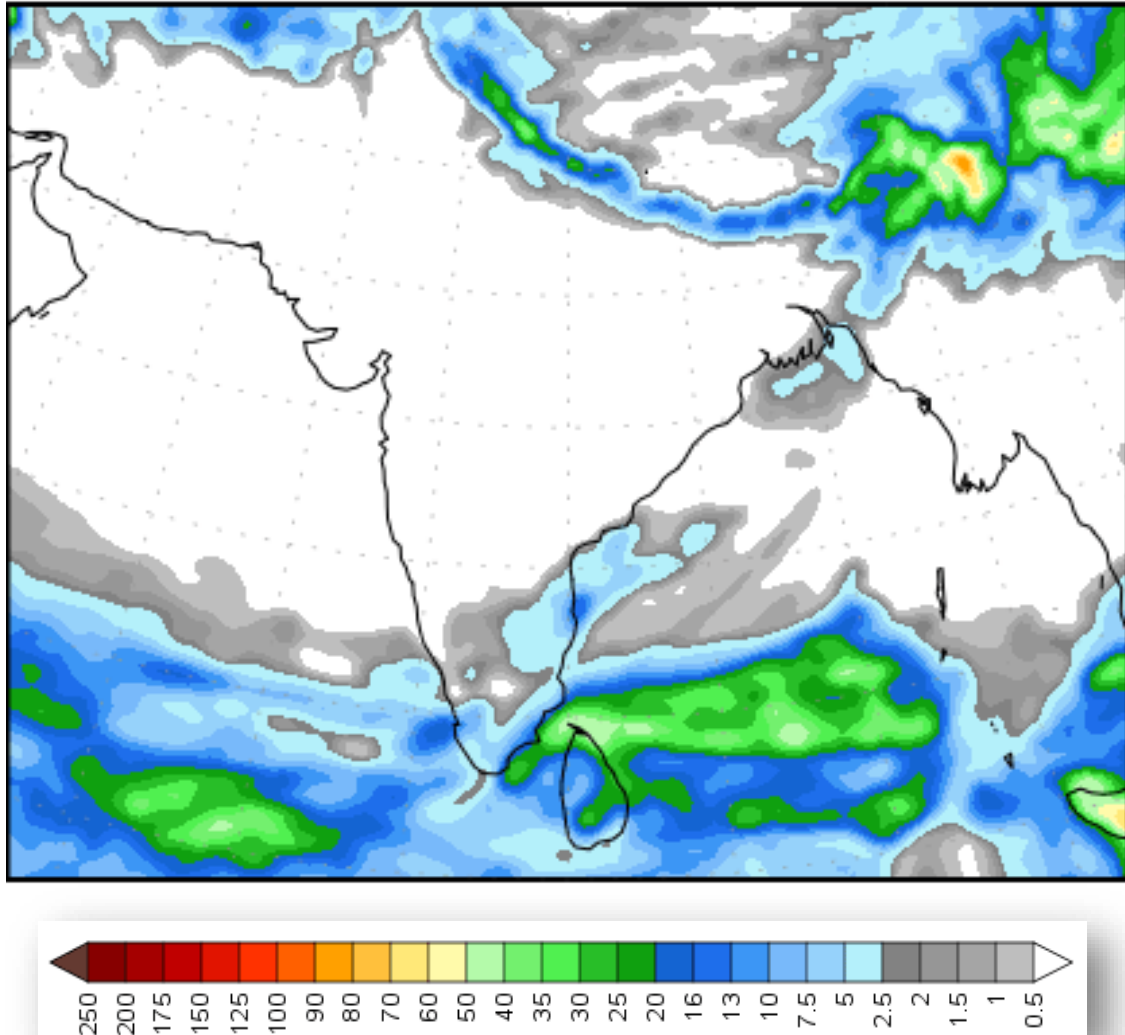


Figure: 1. Latest available satellite picture as on 27 Jan 2022 at 1357 Hrs (IST). (Source: IMD).



**Figure:2. Precipitation forecast for 27 Jan to 04 Feb 2022 (Source: NOAA NCEP).**

*Disclaimer: The predictability of weather depends on many dynamic factors. 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 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.*