

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

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

### **Daily Crop Weather Information as on 16 February 2021**

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

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

- There is a strong wind discontinuity in the lower levels over Central India with moisture inflow from Bay of Bengal. It is likely to move southwestward and persist upto 18th February, 2021. Under its influence: i) Light to moderate rainfall at a few/many places with isolated thunderstorm, lightning & hail likely over Madhya Pradesh, Vidarbha and Chhattisgarh during 16th-17th February. ii) Light to moderate rainfall at a few places with isolated thunderstorm, lightning & hail likely over Marathwada and Madhya Maharashtra during 17th-18th February and over Jharkhand, Telangana and North Interior Karnataka on 18th February.
- Under the influence of low level easterlies, isolated rainfall/snowfall with isolated thunderstorm very likely over Uttarakhand on 16th February.
- Dense to Very Dense Fog in isolated/some pockets over Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh in the morning hours of 17th & 18th February and reduction in intensity & spatial coverage thereafter.
- Warmer night temperatures are likely to continue over the plains of North India during next 4-5 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 a few places over Andaman & Nicobar Islands and Sub-Himalayan West Bengal & Sikkim and at isolated places over Uttarakhand, West Uttar Pradesh, Madhya Pradesh, Chhattisgarh, Arunachal Pradesh, Assam & Meghalaya and Kerala & Mahe.
- Heavy rainfall recorded (at 0830 hours IST of today): at isolated places over Andaman & Nicobar Islands.
- Thunderstorm recorded (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over West Madhya Pradesh and Arunachal Pradesh.
- Fog observed (at 0830 hours IST of today): Very Dense Fog in isolated pockets over Haryana, West Rajasthan and Punjab and Dense Fog in isolated pockets over

Haryana & Chandigarh. Moderate Fog in isolated pockets over Delhi, West Uttar Pradesh, West Bengal & Sikkim and Saurashtra & Kutch.

- Maximum Temperature Departures as on 15-02-2021: Maximum temperatures were markedly above normal (5.1°C or more) at many places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; at a few places over and West Rajasthan; appreciably above normal (3.1°C to 5.0°C) at many Places over Himachal Pradesh, Uttarakhand and East Rajasthan; at a few places over Madhya Pradesh; above normal (1.6°C to 3.0°C) at most places over Jharkhand and Uttar Pradesh; at many places over Assam & Meghalaya, SubHimalayan West Bengal & Sikkim, Vidarbha and Odisha; at a few places over Arunachal Pradesh, Haryana, Chandigarh & Delhi, Gangetic West Bengal and Coastal Karnataka and at isolated places over Andaman & Nicobar Islands, Gujarat States, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. They were below normal (-1.6°C to -3.0°C) at a few places over Rayalaseema and at isolated places over Madhya Maharashtra and North Interior Karnataka and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 35.6°C was reported at Bhubaneshwar (Odisha) over the country.
- Minimum Temperature Departures as on 16-02-2021: Minimum temperatures are markedly above normal (5.1°C or more) at a few places over Punjab and West Rajasthan; appreciably above normal (3.1°C to 5.0°C) at a few places over West Madhya Pradesh and East Rajasthan and at isolated places over East Madhya Pradesh and Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; above normal (1.6°C to 3.0°C) at most places over Marathawada; at many places over Andaman & Nicobar Islands, Saurashtra & Kutch and Madhya Maharashtra; at a few places over Himachal Pradesh, Haryana, Chandigarh & Delhi, Uttar Pradesh, Vidarbha, Gujarat States and Kerala & Mahe and at isolated places over Assam & Meghalaya, Uttarakhand, Chhattisgarh, Odisha, Konkan & Goa and Tamil Nadu, Puducherry & Karaikal. They are appreciably below normal (-3.1°C to -5.0°C) at a few places over Rayalseema and South Interior Karnataka; below normal (-1.6°C to -3.0°C) at a few places over Bihar, Gangetic West Bengal, Telangana and Nagaland, Manipur, Mizoram & Tripura and at isolated places over Sub-Himalayan West Bengal & Sikkim and North Interior Karnataka and near normal over rest parts of the country. The lowest minimum temperature of 6.6°C reported at Karnal (Haryana) over the plains of the country.

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

- 16 February (Day 1): Dense to Dense Fog very likely in some pockets over Punjab; in isolated pockets over Haryana, Chandigarh & Delhi and Dense Fog in isolated

pockets over West Uttar Pradesh and northwest Rajasthan. Thunderstorm accompanied with lightning & hail very likely at isolated places over Madhya Pradesh, Vidarbha and Chhattisgarh and with lightning in isolated places over Uttarakhand, Uttar Pradesh, Jharkhand, Arunachal Pradesh, east Assam & Meghalaya and Marathawada.

- 17 February (Day 2): Dense to very Dense Fog very likely in isolated pockets over Punjab and Dense Fog in isolated pockets over Haryana, Chandigarh & Delhi and West Uttar Pradesh. Thunderstorm accompanied with lightning & hail very likely in isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Madhya Maharashtra and Marathwada and with lightning in isolated places over East Uttar Pradesh, Bihar, Jharkhand, Odisha, Gangetic West Bengal, Telangana, Interior Karnataka and Kerala & Mahe.
- 18 February (Day 3): Thunderstorm accompanied with lightning & hail very likely in isolated places over Jharkhand, Madhya Maharashtra, Marathwada, Telangana and North Interior Karnataka and with lightning in isolated places over Vidarbha, Chhattisgarh, Bihar, Gangetic West Bengal, Odisha, Andaman & Nicobar Islands, Coastal & South Interior Karnataka and Kerala & Mahe.
- 19 February (Day 4): Thunderstorm accompanied with lightning likely in isolated places over Jharkhand, Andaman & Nicobar Islands, Madhya Maharashtra, Marathawada, Coastal Andhra Pradesh & Yanam, South Interior Karnataka, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal.
- 20 February (Day 5): Thunderstorm accompanied with lightning likely in isolated places over Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal.
- The weather outlook for seven days i.e., 16 to 24 February 2021 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)**

### **Madhya Pradesh**

#### **Weather condition:**

High Tmax.: 32 C at Seoni district - Low TMin.: 5 C at Umaria and Raisen districts - Rainfall: Max. rainfall of 5 mm observed in Singrauli district - Day Temp.: 2 C below normal over the state - Night Temp.: Normal over the state

#### **Contingency measure:**

- General Advice General advice: Spray the medicines and remaining nitrogen

in Rabi crops. Keep constant inspection in pulse crops. Spraying of Sarbagin pesticides for control on the appearance of bore.

- Chickpea: In late sowing gram, from which to get out of the branches. Farmers are advised to monitor the chickpea crop and when pest reaches at ETL level (2 or more than two caterpillar per meter row length) the spray of quinalphos 20E.C, polytril C 44 EC, trizophosh 40 EC @ 1.0 liter per hectare is recommended. It is also advised that farmers should use bird percher at the distance of over the field. Firomone trap @ of 10-12 per ha.
- Mustard: Apply second irrigation at flowering top dress remaining nitrogenous fertilizer after irrigation. In possible weather, there may be possibility of white kitten disease in mustard, so for the control of this, make a solution of 2 to 5 gm per liter of water in the mangoyebab and sprinkle it at a rate of hectare.
- Arhar: Control measure should adopted if infestation of insect pest occurred. For control leaf roller capsule borer, gram pod borer and pod fly insect seen in the field apply 2 ml chlorpyrifos or immidachlopride per lit. Water.
- Vegetables : Arrange to give irrigation manure to cabbage and cauliflower in leaf. Arrange to prepare the seedlings for early summer harvesting. If the field is not empty for sowing the seeds, prepare the seedlings in a safe place and plant the seedlings once the farm is open. Prepare the farm for all summer vegetables. And obtain high quality seeds from the places of trust.
- Fruits : Irrigation required Citrus, Guava and Aonla etc because of cold wave and frost. Harvest Mature fruit Citrus, Guava and Aonla for marketing. Use the new plant for the cultivation of amla, berry, lemon and pomegranate, etc. and for seed production.
- Animal Husbandry & Poultry: Vaccinated the cattle against foot and mouth disease. Sore throats and acne vaccine in goats. Irrigate early planted Barseem crop after each cutting. Sowing of green fodder like berseem and lucern crops for the cattle feed. Humid weather condition is prevailed hence keep cattles in dry and clean place. Create neem leaves smoke in night to save them from mosquitoes and bees. Sowing of green fodder like berseem and lucern crops for the cattle feed. Irrigate early planted Barseem crop after each cutting. Vaccinated the cattle against foot and mouth disease. Sore throats and acne vaccine in goats.

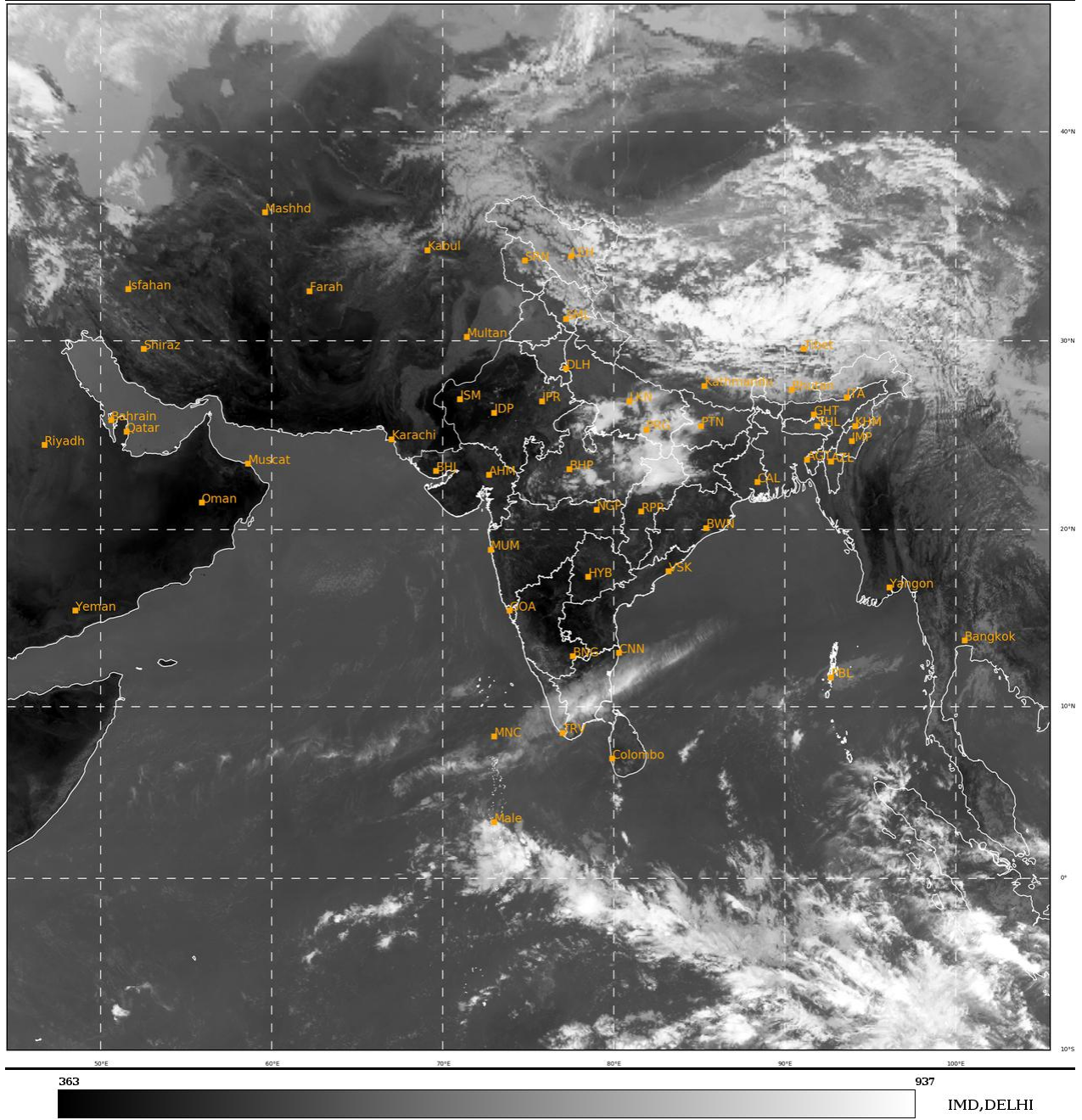
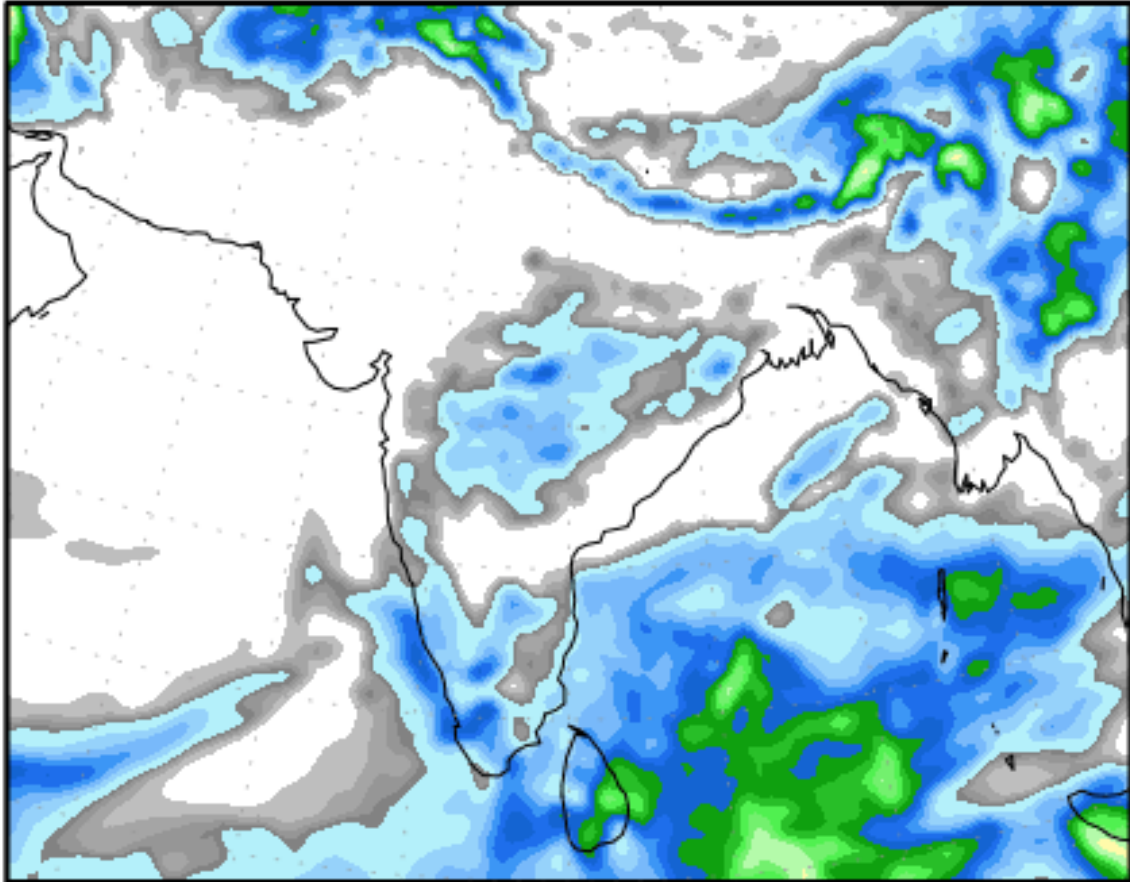


Figure: 1. Latest available satellite picture as on 16 February 2021 at 1357 Hrs (IST).  
(Source: IMD).



**Figure:2. Precipitation forecast for 16 to 24 February 2021 (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.*