

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

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

### **Daily Crop Weather Information as on 11 February 2022**

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

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

- The trough in westerlies runs roughly along Long. 87°E to the north of Lat. 25°N; it is very likely to cause:
  1. Isolated to scattered light/moderate rainfall with thunderstorm & lightning very likely over Sub-Himalayan West Bengal-Sikkim during next 2 days.
  2. Scattered to fairly widespread rainfall very likely over Arunachal Pradesh and Assam & Meghalaya during next 2 days.
  3. Isolated hailstorm also likely over Sub-Himalayan West Bengal-Sikkim and Assam today, the 11th February, 2022.
  4. Strong winds (speed 25-35 kmph) very likely over Punjab, Haryana and West Uttar Pradesh during next 2 days.
- Strong northeasterly winds are prevailing over coastal Tamil Nadu in lower tropospheric levels, it is likely to continue during next 2 days, under its influence, isolated to scattered rainfall very likely over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe during next 2 days. Isolated thunderstorm accompanied with lightning also likely over Tamilnadu, Puducherry & Karaikal and Kerala & Mahe during next 2 days.
- Heavy rainfall at isolated places very likely over south coastal Tamil Nadu during next 2 days.
- Under the influence of fresh feeble Western Disturbance; isolated to scattered light rainfall/snowfall very likely over Jammu, Kashmir, Ladakh, GilgitBaltistan & Muzaffarabad during 13th to 15th and over Himachal Pradesh and Uttarakhand on 15th February, 2022.
- Under the influence of another Western Disturbance; scattered to fairly widespread light rainfall/snowfall very likely over Western Himalayan Region and light isolated to scattered rainfall over plains of northwest India from 17th to 20th February, 2022.
- Cold Day and cold wave conditions very likely in isolated pockets of Madhya Pradesh during next 2 days.

- Dense Fog Conditions very likely in isolated places over Assam & Meghalaya & Nagaland, Manipur, Mizoram & Tripura during next 24 hours and over Uttar Pradesh, Punjab and Haryana-Chandigarh during night/morning hours of 13th-15th February, 2022.
- The images showing the latest satellite picture in the figure. 1.

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

- Rainfall/thundershower observed (from 0830 hours IST of yesterday to 0830 hours IST of Today): at many places over Arunachal Pradesh and West Bengal-Sikkim; at a few places over Assam & Meghalaya and at isolated places over Andaman & Nicobar Islands, Nagaland-Manipur-Mizoram-Tripura, Odisha, Jharkhand and Tamil Nadu-Puducherry-Karaikal.
- Heavy rainfall observed at isolated places over Tamil Nadu.
- Cold day condition prevailed over in isolated pockets over Uttar Pradesh.
- Fog observed (at 0830 hrs IST): Shallow to Moderate fog in isolated pockets over Uttarakhand and Sub-Himalayan West Bengal & Sikkim.
- Minimum Temperature Departures (as on 11-02-2022): Maximum temperatures are above normal (1.6°C to 3.0°C) at isolated places over West Rajasthan, South Interior Karnataka, Madhya Maharashtra, Lakshadweep, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal, Sub-Himalayan West Bengal and Andaman & Nicobar Islands. They are markedly below normal (-5.0°C or less) at isolated places over East Madhya Pradesh; appreciably below normal (-3.1°C to -5.0°C) at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, East Rajasthan and West Madhya Pradesh; below normal (-1.6°C to -3.0°C) at many places over Himachal Pradesh, Uttarakhand and Vidarbha; at a few places over South Interior Karnataka and at isolated places over Haryana, Chandigarh & Delhi, Uttar Pradesh, Rayalaseema and Coastal Andhra Pradesh & Yanam and near normal over rest parts of the country. Today, the lowest minimum temperature of 4.8°C is reported at Umaria (East Madhya Pradesh) over the country.
- Maximum Temperature Departures (as on 10-02-2022): Maximum temperatures are above normal (1.6°C to 3.0°C) at isolated places over JammuKashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam and Andaman & Nicobar Islands. They are markedly below normal (-5.0°C or less) at a few places over East Madhya Pradesh, Gangetic West Bengal and Nagaland, Manipur, Mizoram & Tripura and at isolated places over West Madhya Pradesh; appreciably below

normal ( $-3.1^{\circ}\text{C}$  to  $-5.0^{\circ}\text{C}$ ) at many places over SubHimalayan West Bengal & Sikkim; at a few places over East Rajasthan and Assam & Meghalaya and at isolated places over Uttar Pradesh; below normal ( $-1.6^{\circ}\text{C}$  to  $-3.0^{\circ}\text{C}$ ) at many places over Konkan & Goa; at a few places over Himachal Pradesh, Vidarbha, Marathwada, Chhattisgarh and Odisha and at isolated places over Uttarakhand and Telangana and near normal over rest parts of the country. Today, the highest maximum temperature of  $36.0^{\circ}\text{C}$  is reported at Punalur and Kottayam (Kerala & Mahe) over the country.

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

- 11 February (Day 1): Thunderstorm accompanied with lightning/Hail at isolated places very likely over Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya; with lightning at isolated places over Andaman & Nicobar Islands, Arunachal Pradesh, Kerala & Mahe and TamilnaduPuducherry-Karaikal. Heavy Rainfall at isolated places very likely over south coastal Tamilnadu. Dense Fog in isolated pockets very likely over Assam & Meghalaya and Nagaland-ManipurMizoram-Tripura. Cold day conditions in isolated pockets very likely over Madhya Pradesh. Cold wave conditions in isolated pockets very likely over Madhya Pradesh. Squally weather(speed 40-50 kmph gusty 60 kmph) very likely over Gulf of Mannar & Comorin area. Fisherman are advice not to venture into these areas.
- 12 February (Day 2): Thunderstorm accompanied with lightning at isolated places very likely over Tamilnadu-Puducherry-Karaikal and Kerala-Mahe. Heavy Rainfall at isolated places very likely over south coastal Tamilnadu. Cold day conditions in isolated pockets very likely over Madhya Pradesh. Cold wave conditions in isolated pockets very likely over Madhya Pradesh. Dense Fog in isolated pockets very likely over Punjab, Haryana-Chandigarh and Uttar Pradesh. Squally weather(speed 40-50 kmph gusty 60 kmph) very likely over Gulf of Mannar & Comorin area. Fisherman are advice not to venture into these areas.
- 13 February (Day 3): Dense Fog in isolated pockets very likely over Punjab, Haryana-Chandigarh, Uttar Pradesh and Bihar.
- 14 February (Day 4): Dense Fog in isolated pockets likely over Punjab, Haryana-Chandigarh and Uttar Pradesh.
- 15 February (Day 5): Thunderstorm accompanied with lightning at isolated places likely over Andaman & Nicobar Islands.
- The weather outlook for seven days i.e., 11 Feb to 19 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)

### Western U.P

#### Weather condition:

Cloudy weather appearing on 5 February, 2.0 mm rainfall forecast only 5 February, 2022 and rest days clear sky and no rainfall forecast during this week . Maximum temperature may be expected 1.0 - 2.0°C higher to its normal temperature and minimum temperature may be also expected 1.0 - 2.0°C higher to its normal temperature. Whereas wind velocity may be expected 4.0 -10.0 kmph prevailing NW/ NE which may be 2 to 3 kmph above the normal during coming days as per forecast.

#### Contingency measure:

- Wheat: Farmers are advised no need of irrigation of wheat crop because, 13.0 mm rainfall occurred on 4 February, 2022. top dress remaining dose of urea at optimum moisture during PI stage. For control of grassy leaved weed in late sown wheat spray Clodinafop-propargyl 15% WP @ 400 g/ha, grassy and broad leaved weed spray Sulfosulfuron 75% wp @ 33g/ha with 500-600 lt of water. Sulfosulfuron 75% wp @ 33g/ha + metsulfuron methyl 20% wp@ 4 g/ha with 300 lt of water solution is to be applied for control of mixed weed flora in late sown wheat crop .
- Barley: Farmers are advised take benefits of 13.0 mm rainfall occurred on 4 February top dress urea at PI stage.
- Rabi maize: Top dress urea at knee height stage of crop.
- Pigeon pea: No need of irrigation farmers are advised watchful insect and pest.
- Pea : Farmers are advised appear root rot/ Powdery mildew disease due to high soil and air moisture, spray Mancozeb @ 2.0kg or Copper oxichloride 50% WP @ 3.0 kg with 500 to 600 lt. water solution.
- Gram: If seen pad borer spray Fenvalrate 20% EC @2.0 lt. or Novaluron 10% EC @ 750 ml / ha with 500 to 600 lt. water solution .
- Lentil: If seen Aphid, spray Imidachlorprid 17.8%S L@ 300ml./ha with 500 to 600 lt. water solution .
- Mustard : Farmers are advised watchful for Aphid, if seen spray Imidachlorprid 17.8%S L@ 300ml./ha with 500 to 600 lt. water solution .
- Linseed :Watchful insect and pest due to cloudy weather higher day and night temperature.
- Brinjal / Chilies: Pick up mature fruits in standing crop. Watchful insect and pest.
- Leafy Vegetable: Cutting , marketing ,watchful insect and pest.

- Potato: Dig out early sown crop after 5 February. Take precaution from late blight, spray Copper oxichloride 3.0 kg/ha with 700-800 lt. water solution or 2.0 g /lt water Mancozeb after 5 February.
- Barseem : Second cutting should be taken up and top dressing of 20 kg urea at optimum moisture.
- Animal : Balanced diet should be given for milch animal. Paddy straw or ash as litter in animal houses to be used to protect cow/ buffalo calf from the cold and rain. The routine immunization of animals is to be done as per the advice of Veterinary doctor .

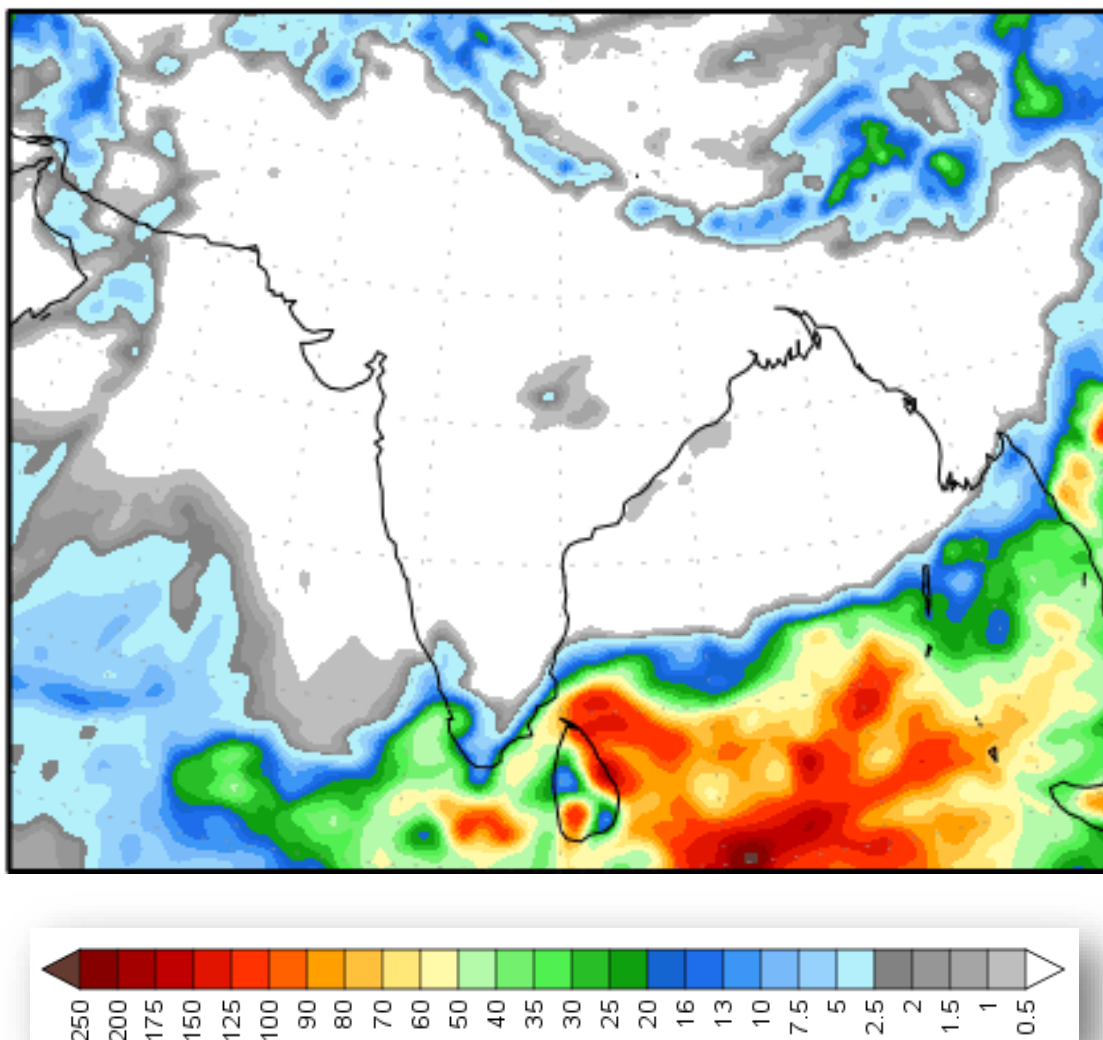


L1C Mercator

11-02-2022/(1330 to 1356) IST



**Figure: 1. Latest available satellite picture as on 11 Feb 2022 at 1356 Hrs (IST). (Source: IMD).**



**Figure:2. Precipitation forecast for 11 Feb to 19 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.*