

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

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

### **Daily Crop Weather Information as on 01 March 2022**

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

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

- Weather Systems and associated forecast & warnings:
  1. A Low Pressure Area lies over Southeast Bay of Bengal and adjoining Equatorial Indian Ocean with associated cyclonic circulation extending upto middle tropospheric levels. It is likely to become well marked and move west northwestwards towards Sri Lanka coast during next 3 days. Under its influence:
    - Fairly widespread to widespread light/moderate rainfall with thunderstorm, lightning & gusty winds (30-40 kmph gusting to 50 Kmph) very likely over Andaman & Nicobar Islands today. Isolated heavy rainfall also very likely over Nicobar Islands today.
    - Scattered to Fairly widespread thunderstorm/lightning activity very likely over Tamil Nadu-Puducherry-Karaikal during 03rd to 05th March, 2022, over south Coastal Andhra Pradesh on 04th & 05th March and over Rayalaseema on 05th March, 2022. Isolated Heavy to Very Heavy rainfall very likely over Tamil Nadu-Puducherry-Karaikal on 04th & 05th March. Isolated heavy rainfall is very likely over south Coastal Andhra Pradesh and Rayalaseema on 05th March, 2022.
    - Squally winds (40-50 kmph gusting to 60 Kmph) very likely over south Andaman Sea, South Bay of Bengal and Gulf of Mannar on 01st March, over South Bay of Bengal, Gulf of Mannar and Comorin Area on 02nd March; over Southwest Bay of Bengal, Gulf of Mannar on 03rd March; over Southwest Bay of Bengal, Gulf of Mannar and along & off Tamil Nadu-south Coastal Andhra Pradesh coasts on 04th March and over Southwest Bay of Bengal and along & off north Tamil Nadu-south Coastal Andhra Pradesh coasts on 05th March 2022. Fishermen are advised not to venture into these areas.
  2. The Western Disturbance as a trough in middle & upper tropospheric westerlies is seen today along Long.70°E to the north of Lat.30°N. A fresh Western Disturbance is very likely to influence northwest India from 02nd March, 2022.  
Under their influence: fairly widespread to widespread light rainfall/snowfall over Jammu-Kashmir & Himachal Pradesh and isolated light rainfall/snowfall over Uttarakhand during 01st - 03rd March and isolated light rainfall over Punjab

during 01st - 03rd March; over Rajasthan on 02nd March and over HaryanaChandigarh on 02nd & 03rd March, 2022. Strong surface Winds (speed 25-35 kmph) are very likely to prevail over East Rajasthan on 03rd & 04th March and over most parts of plains of northwest India on 05th March, 2022.

A fresh Western Disturbance is very likely to influence northwest India from 05th March, 2022. It is very likely to cause scattered to fairly widespread light/moderate rainfall/snowfall over western Himalayan region during 05th-07th March and isolated light rainfall over adjoining plains of northwest India on 07th & 08th March, 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 a few places over Andaman & Nicobar Islands and Arunachal Pradesh and at isolated places over Nagaland, Assam & Meghalaya, Gangetic West Bengal, Jharkhand, Jammu & Kashmir, Madhya Pradesh, Chhattisgarh and Vidarbha.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Assam & Meghalaya, East Madhya Pradesh, Chhattisgarh and Jharkhand.
- Minimum Temperature Departures (as on 01-03-2022): Minimum temperatures are above normal (1.6°C to 3.0°C) at a few places over Madhya Pradesh; at isolated places over Gujarat State, Marathwada, Jharkhand, Gangetic West Bengal and Odisha. They are appreciably below normal (-3.1°C to -5.0°C) at isolated places over Coastal Andhra Pradesh-Yanam; below normal (-1.6°C to -3.0°C) at many places over Haryana-Chandigarh-Delhi; at isolated places over Rayalaseema and West Uttar Pradesh and near normal over rest parts of the country. Today, the lowest minimum temperature of 6.8°C reported at Nowgong (East Madhya Pradesh) over the plains of the country.
- Maximum Temperature Departures (as on 28-02-2022): Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Himachal Pradesh and Saurashtra & Kutch; above normal (1.6°C to 3.0°C) at many places over Coastal Karnataka; at a few places over Vidarbha, Coastal Andhra Pradesh-Yanam and Kerala-Mahe; at isolated places over Assam & Meghalaya, Gangetic West Bengal, Odisha and Tamil Nadu-Puducherry-Karaikal. They are appreciably below normal (-3.1°C to -5.0°C) at isolated places over West Madhya Pradesh; below normal (-1.6°C to -3.0°C) at many places over South Interior Karnataka; at a few places over Haryana, Chandigarh & Delhi, Uttar Pradesh and East Rajasthan;

at isolated place over East Madhya Pradesh and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 38.0°C is reported at Nalgonda (Telangana) over the country.

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

- 01 March (Day 1): Heavy rainfall at isolated places very likely over Nicobar Islands. Thunderstorm accompanied with lightning & gusty winds (speed 30-40 kmph) at isolated places very likely over Andaman & Nicobar Islands and with lightning at isolated places over JammuKashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Odisha, Jharkhand and north Chhattisgarh. Squally Weather (speed 40-50 kmph gusting to 60 kmph) very likely over south Andaman Sea, South Bay of Bengal and Gulf Of Mannar. Fishermen are advised not to venture into these areas.
- 02 March (Day 2): Thunderstorm accompanied with lightning at isolated places very likely over Punjab, north Haryana and north Rajasthan. Squally Weather (speed 40-50 kmph gusting to 60 kmph) very likely over South Bay of Bengal, Gulf of Mannar and Comorin area. Fishermen are advised not to venture into these areas.
- 03 March (Day 3): Thunderstorm accompanied with lightning at isolated places very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Punjab, Haryana, northeast Rajasthan and Tamil Nadu-Puducherry-Karaikal. Squally Weather (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest & adjoining Westcentral Bay of Bengal, Gulf Of Mannar and Comorin area. Fishermen are advised not to venture into these areas.
- 04 March (Day 4): Heavy to very heavy rainfall at isolated places very likely over Tamil NaduPuducherry-Karaikal. Thunderstorm accompanied with lightning at isolated places very likely over Tamil NaduPuducherry-Karaikal and Kerala-Mahe. Squally Weather (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest & adjoining Westcentral Bay of Bengal, along & off Tamil Nadu-south Coastal Andhra Pradesh coasts, Gulf Of Mannar and Comorin area. Fishermen are advised not to venture into these areas.
- 05 March (Day 5): Heavy to very heavy rainfall at isolated places likely over Tamil NaduPuducherry-Karaikal and heavy rainfall at isolated places over south Coastal Andhra Pradesh and Rayalaseema. Thunderstorm accompanied with lightning at isolated places very likely over south Coastal Andhra Pradesh-Yanam, Rayalaseema, Tamil Nadu-Puducherry-Karaikal and Kerala-Mahe. Squally Weather (speed 40-50 kmph gusting to 60 kmph) likely over Southwest Bay of Bengal and along & off north Tamil Nadu-south Coastal Andhra Pradesh coasts. Fishermen are advised not to venture into these areas

- The weather outlook for seven days i.e., 01 Mar to 09 Mar 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)**

### **Jammu**

#### **Weather condition:**

Mainly cloudy weather prevailed during this week with 13.2 mm of rainfall. The maximum temperature was observed above normal by 1 to 2 °C and remain in the range of 20.2 to 24.0°C. The minimum temperature remained below normal by 2 to 4°C, except on 22nd Feb, 2022 it was observed 2 °C above normal and was recorded in range the range of 4.5 to 11.0°C, respectively. The morning and afternoon relative humidity were observed in the range of 86 to 97 % and 37 to 74 %, respectively. The evaporation and sunshine remained in the range of 2.0 to 2.8 mm/day and 0.0 to 6.4 hrs, respectively

#### **Contingency measure:**

- Wheat: Very Late sown Late/Normal sown Early sown Jointing Flag leaf Anthesis Due to the chances of moderate rain, postpone irrigation as well as application of urea for next 2 days. Apply 2nd top dressing of urea before earhead emergence in normal sown crop during clear weather. Monitor zinc deficiency, if yellow patches develop between the mid-vein and edge of young to middle leaves, spray zinc sulphate @ 0.2%. The weather condition is favourable to yellow rust attack in susceptible varieties of wheat, farmers are advised to regularly monitor wheat fields for yellow rust and if noticed apply Propanazazole (Tilt) @ 25ml in 25 lits. of water/kanal during clear weather.
- Oilseeds: Mustard: Flowering/silique development Postpone application of chemical plant protection measures for next 2 days. Weather is congenial for aphid attack, if the 10 cm of the branch have more than 20 aphids, Install yellow sticky trap @ 2/kanal. Spray neem oil @ 3ml./lt of water during clear weather to control lady bird beetle (add 3ml of liquid soap in 14 lt. tank with neem oil). The chances of outbreak of white rust and alternaria blight disease in rape seed and mustard crop under present weather conditions, apply mancozeb @ 0.25% during clear weather if symptoms appears.
- Vegetables: Tomato/brinjal/ chillies Cucurbits (Cucumber / bottlegourd/ bittergourd/ pumpkin) Seed stage Transplanting/ Seed stage Postpone irrigation due to chances of rainfall. Transplanting is recommended. After receipt of rain, farmers who have prepared their cucurbit nursery in poly bag under protection

may go for Transplanting in main field. Apply furodon granules @ 1 gm/pit to avoid the attack of red pumpkin beetle. Or apply ash added with kerosene oil @ 10ml in 1kg of ash and apply in morning hours so that it may get stick on leaves.

- Farmer may go for direct sowing of two seeds per hill is recommended at spacing of 0.75×1.0m in cucumber, 1.0×1.0m in bittergourd and 1.0×3.0m in both bottle gourd and pumpkin after receipt of rain,
- Floriculture: Chrysanthemum Gladiolus French marigold Post harvesting Flowering/harvesting Flowering/harvesting Postpone irrigation and application of fertilizer for next 2 days due to chances of rain. Incorporate FYM and DAP after receipt of rain followed by hoeing. Spike harvesting is recommended. Harvesting is recommended.
- Button mushroom (A bispora): Button/harvesting Spray chlorothalonil @ 0.05% for the management of competitor moulds. If incidence of flies is observed, apply dimilin @ 0.01%. Maintain proper hygienic conditions in and around growing rooms. Provide proper ventilation in the cropping room.
- Horticulture: Mango/ Citrus Bearing Postpone irrigation and application of fertilizer for next 2 days due to chances of rain. Apply alkathene or sticky grease band on mango plants to control upward movement of mango mealy bug or Mix methyl parathion dust @ 250mg/tree after receipt of rain in mango to control mealy bug.
- Sericulture: Silkworm crop Harvested cocoon crop Pack cocoon loosely in muslin cloth bags. Keep the bags in wire mesh covered racks to avoid rodent attack till marketing. Keep cocoon bags in well ventilated rooms to avoid dampness.
- Apiculture: Shift the bee colonies near mustard field. Due to low temperature, keep the colony under cover during night.
- Fisheries: Fingerlings Supplementary feeding may be provided at the minimum. Avoid unnecessary netting operations to safeguard the fish livestock especially small size fishes from cold shock/injuries. In case of yearlings/marketable size fish, farmers may go for partial harvesting.
- Poultry: Keep the chicks warm by giving them artificial heat according to age. Protect the pregnant and milch animals from cold and feed them mineral mixture regularly. Give special care to young calves as they are more sensitive to pneumonia. Provide dry bedding during night. Use dry gunny bags as bedding material for protection against low night temperatures.
- Live stock: Dairy animals/ Sheep & Goat To avoid cracking or fissuring of teats in cold dry weather, clean the teats with warm water and apply ghee or butter after every milking. Give special care to young calves as they are more sensitive to pneumonia. Use dry gunny bags as bedding material for protection against

low night temperatures. Do not allow animals to leave khurli early in morning directly to open area. Provide hay of green forage like stala, lobia, maize, jowar and bajra etc. with kadbi and other green grasses to the milch animals in order to enhance milk production and also to prevent from bloat (aafara). Protect the pregnant and milch animals from cold and feed them mineral mixture regularly. \*Cover face with thick cloth or wear mask and maintain social distance while doing agricultural operations in field

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

01-03-2022/(0800 to 0827) GMT  
01-03-2022/(1330 to 1357) IST

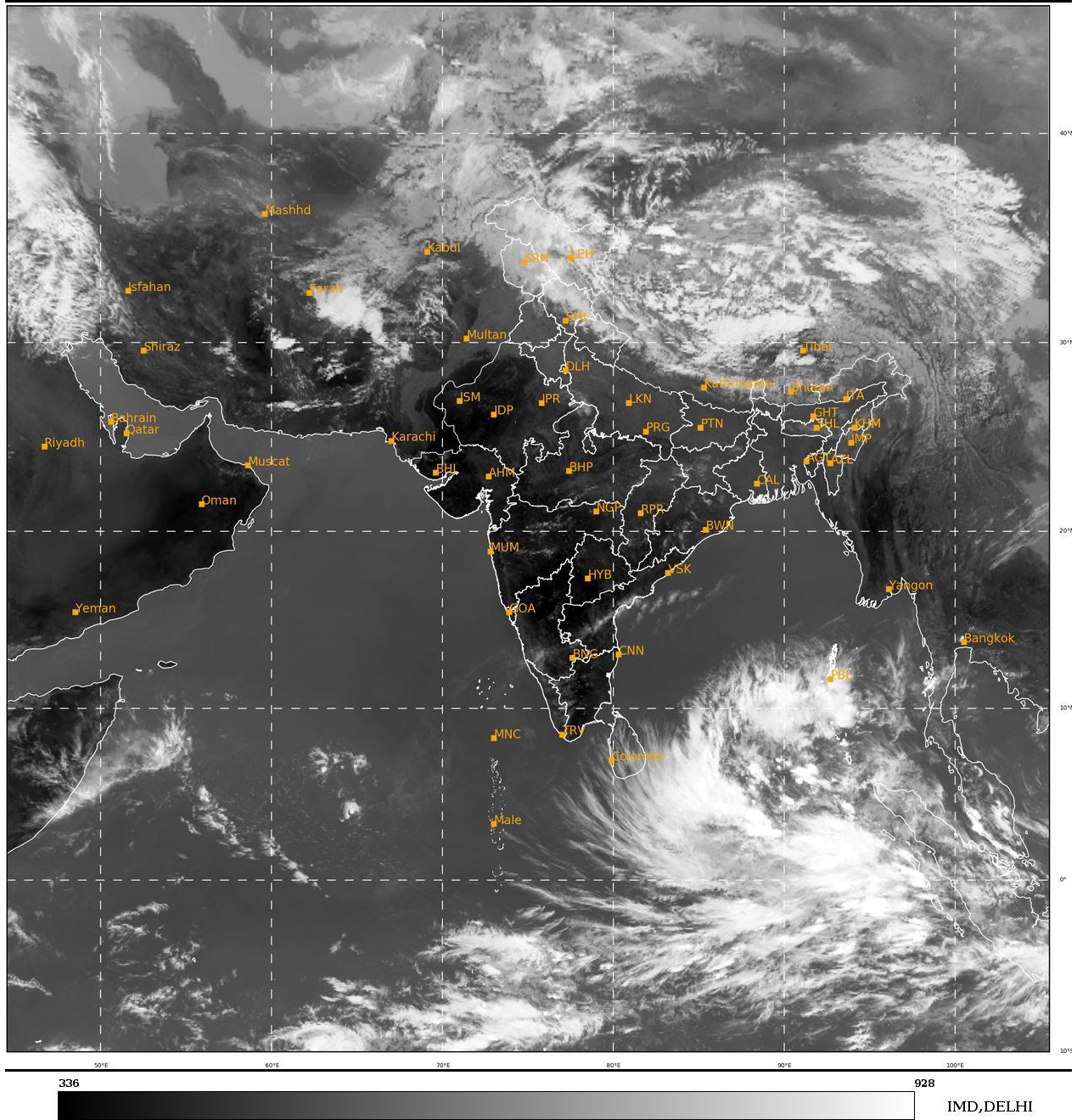
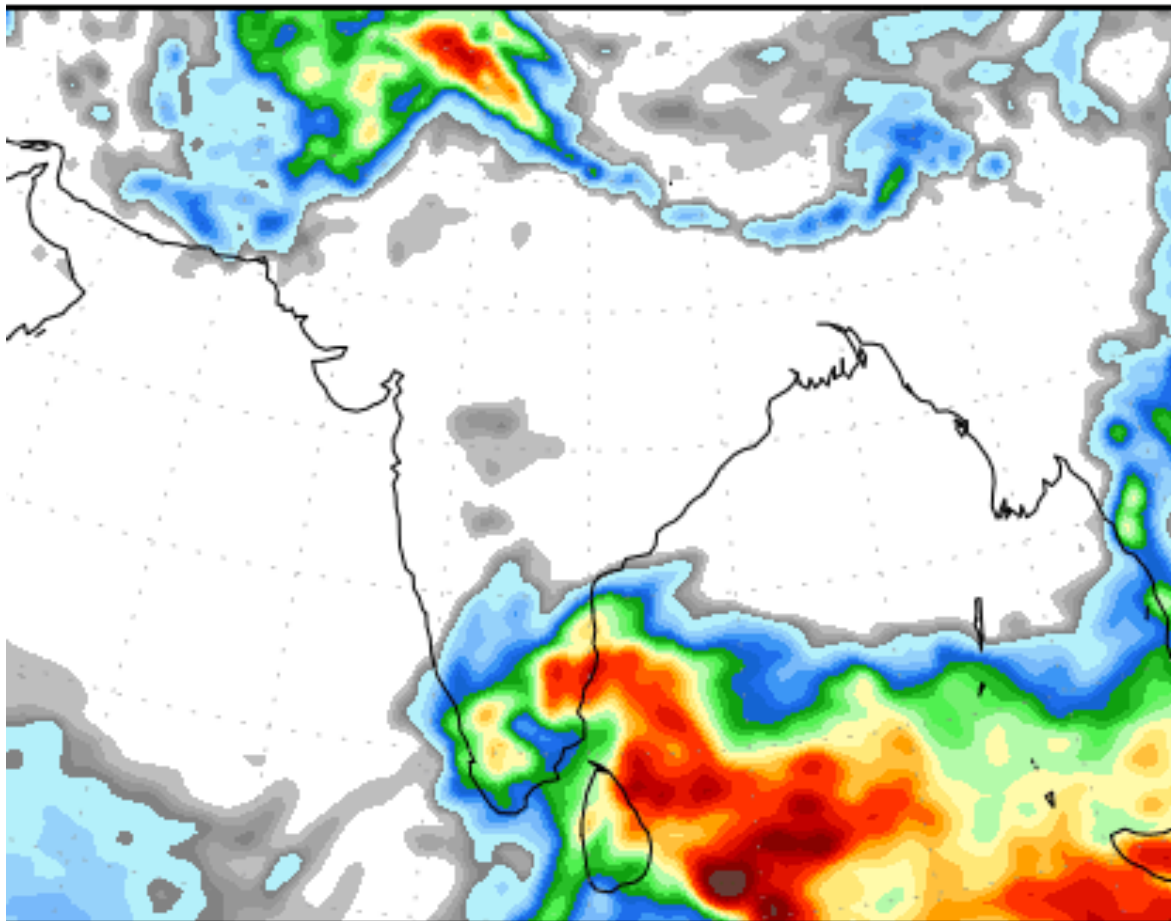


Figure: 1. Latest available satellite picture as on 01 Mar 2022 at 1357 Hrs (IST). (Source: IMD).



**Figure:2. Precipitation forecast for 01 Mar to 09 Mar 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.*