

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

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

### **Daily Crop Weather Information as on 24 March 2021**

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

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

- A cyclonic circulation lies over Madhya Maharashtra & neighbourhood and another cyclonic circulation over Southeast Madhya Pradesh & neighbourhood at lower levels. Under its influence:
- Isolated rainfall with thunderstorm & lightning likely over East Madhya Pradesh, Vidarbha, Chhattisgarh, Madhya Maharashtra, Marathwada and Konkan & Goa today, the 24th March, 2021.
- A fresh Western Disturbance is likely to affect Western Himalayan Region from 27th March. Under its influence scattered to fairly widespread rainfall/snowfall with thunderstorm, lightning likely over Himachal Pradesh and Uttarakhand and also thunderstorm, lightning, hail & gusty winds likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad.
- No significant change in maximum temperatures over most parts of Northwest India during next 48 hours and over most parts of West India during next 24 hours and rise by 4-6°C over Northwest India and by 3-4°C over West India thereafter. Gradual rise in maximum temperatures by 3-6°C over most parts of Central India for next 3 days. Under this scenario no heat wave conditions very likely over the country during next 4-5 days except Konkan & Goa where heat wave occurred at isolated pockets during 24th & 25th March, 2021.
- 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 Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Himachal Pradesh; at a few places over West Uttar Pradesh, Haryana, Chandigarh & Delhi, Punjab, East Rajasthan, Vidarbha and Lakshadweep and at isolated places over West Bengal & Sikkim, Odisha, Jharkhand, East Uttar Pradesh, Uttarakhand, West Rajasthan, Madhya Pradesh, Madhya Maharashtra, Chhattisgarh, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe.

- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan and Muzaffarabad, East Rajasthan, Uttar Pradesh, Haryana, Chandigarh & Delhi, East Madhya Pradesh, Madhya Maharashtra, Vidarbha and Gangetic West Bengal.
- Maximum Temperature Departures as on 23-03-2021: Maximum temperatures were markedly above normal (5.1°C or more) at many places over Assam & Meghalaya; at a few places over Arunachal Pradesh and at isolated places over Gangetic West Bengal and Konkan & Goa; appreciably above normal (3.1°C to 5.0°C) at many places over Nagaland, Manipur, Mizoram & Tripura; at a few places over Sub-Himalayan West Bengal & Sikkim; above normal (1.6°C to 3.0°C) at most places over Jharkhand; at many places over Uttarakhand, East Uttar Pradesh and Bihar; at a few places over Odisha, Gujarat State, and Lakshadweep and at isolated places over West Uttar Pradesh, Madhya Pradesh, Coastal & South Interior Karnataka and Kerala & Mahe. They were markedly below normal (-5.1°C or less) at most places over Vidarbha; at many places over Himachal Pradesh and Haryana, Chandigarh & Delhi and at a few places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Marathawada; appreciably below normal (-3.1°C to -5.0°C) at a few places over Chhattisgarh and Telangana; below normal (-1.6°C to -3.0°C) at many places over Madhya Maharashtra; at a few places over Andaman & Nicobar Islands and at isolated places over North Interior Karnataka Rayalaseema and Tamilnadu, Puducherry & Karaikal and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 39.4°C was reported at Tuni (Coastal Andhra Pradesh & Yanam) over the country.
- Minimum Temperature Departures as on 24-03-2021: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at many places over SubHimalayan West Bengal & Sikkim, East Uttar Pradesh and Bihar; at a few places over Andaman & Nicobar Islands and at isolated places over Madhya Maharashtra and North Interior Karnataka; above normal (1.6°C to 3.0°C) at most places over Coastal Karnataka, and Odisha; at many places over Jharkhand, Gangetic West Bengal, Konkan & Goa; at a few places over Assam & Meghalaya, Arunachal Pradesh, East Madhya Pradesh and Gujarat State and at isolated places over Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe and Lakshadweep. They are below normal (-1.6°C to -3.0°C) at many places over Haryana, Chandigarh & Delhi and Vidarbha; at a few places over East Rajasthan, Coastal Andhra Pradesh & Yanam, Rayalaseema and Telangana and at isolated places over Himachal Pradesh, Punjab, West Rajasthan, Odisha and South Interior Karnataka and near

normal over rest parts of the country. Today, the lowest minimum temperature of 13.0°C reported at Sikar (East Rajasthan) over the plains of the country.

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

- 24 March (Day 1): Thunderstorm with lightning and gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Sub-Himalayan West Bengal & Sikkim and Andaman & Nicobar Islands and with lightning at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, East Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Arunachal Pradesh, south Konkan & Goa, Kerala & Mahe, Madhya Maharashtra and Marathawada. Heat Wave Conditions very likely at isolated places over Konkan & Goa.
- 25 March (Day 2): Thunderstorm with lightning and gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Sub-Himalayan West Bengal & Sikkim and Andaman & Nicobar Islands and with lightning at isolated places over Arunachal Pradesh and Kerala & Mahe. Heat Wave Conditions very likely at isolated places over Konkan & Goa.
- 26 March (Day 3): Thunderstorm with lightning very likely at isolated places over Kerala & Mahe.
- 27 March (Day 4): Thunderstorm with lightning likely at isolated places over Kerala & Mahe.
- 28 March (Day 5): Thunderstorm with lightning, hail and gusty winds (speed reaching 30-40 kmph) likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad; with lightning and gusty winds (speed reaching 30-40 kmph) at isolated places over Jharkhand and Odisha and with lightning at isolated places over Himachal Pradesh, Uttarakhand and Kerala & Mahe.
- The weather outlook for seven days i.e., 24 Mar to 01 April 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)**

#### **Tamil nadu**

#### **Weather condition:**

With respect to daily rainfall, rainfall occurred at isolated places over Tamil Nadu on 12.03.2021, dry weather prevailed over Tamil Nadu from 13.03.2021, 14.03.2021, 16.03.2021 and 17.03.2021, dry weather prevailed over rest Tamil Nadu on 14.03.2021

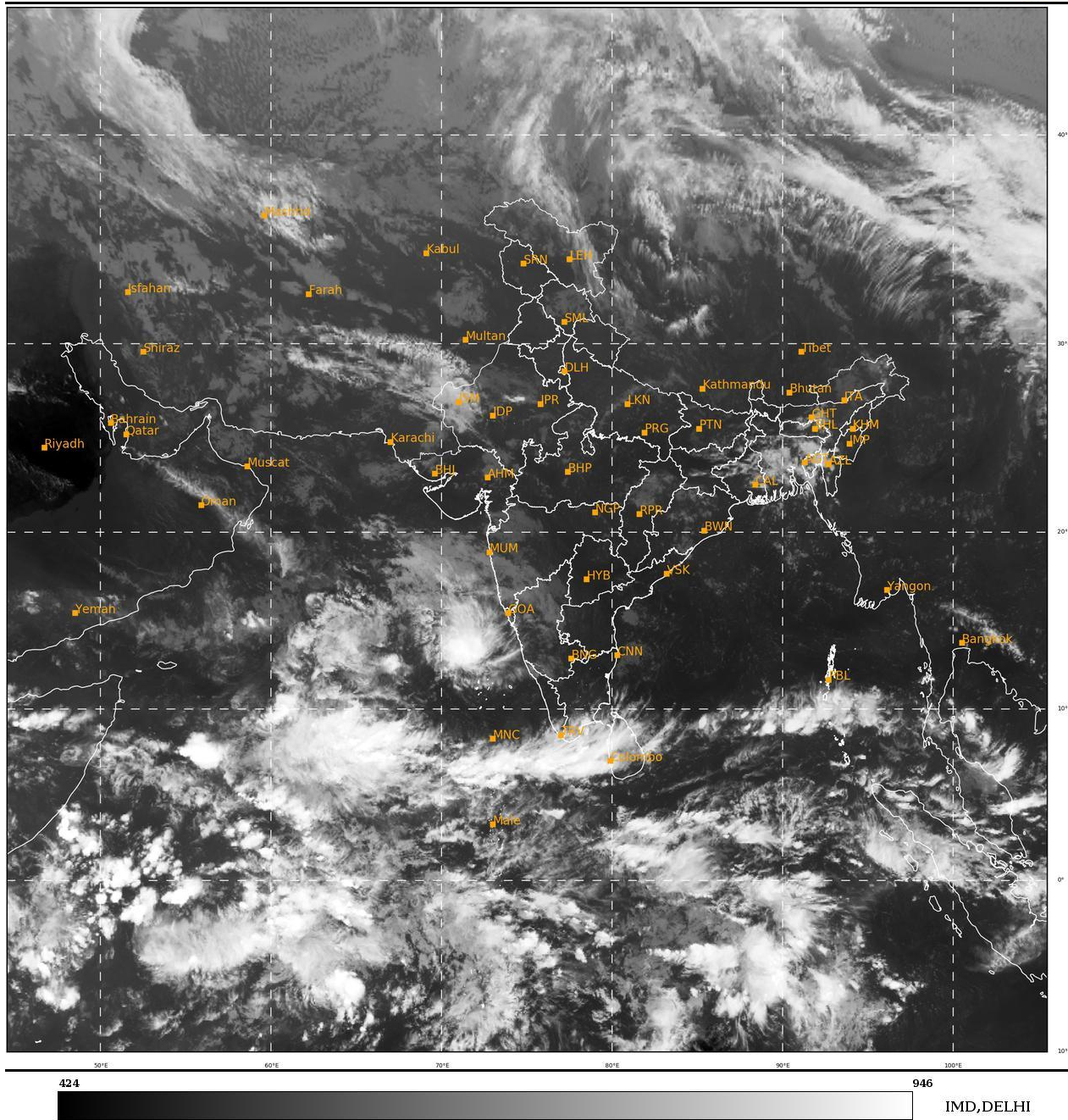
during this week.— Minimum temperature range of 19°C - 27°C prevailed over the state except Kodaikanal and Uthagamandalam (7°C - 9°C) during the period under report. — Maximum temperature range of 31°C - 38°C prevailed over the state except Kodaikanal and Uthagamandalam (17°C - 21°C) during the period under report. —Maximum temperature: 35.7°C (normal 35.7°C), minimum temperature: 19.3°C (normal 21.4°C), rainfall: 0.0 mm (normal 6.7 mm). The minimum temperature is 2.1°C below normal and rainfall was 6.7 mm below normal across the week. General weather situation in Tamil Nadu:

### Contingency measure:

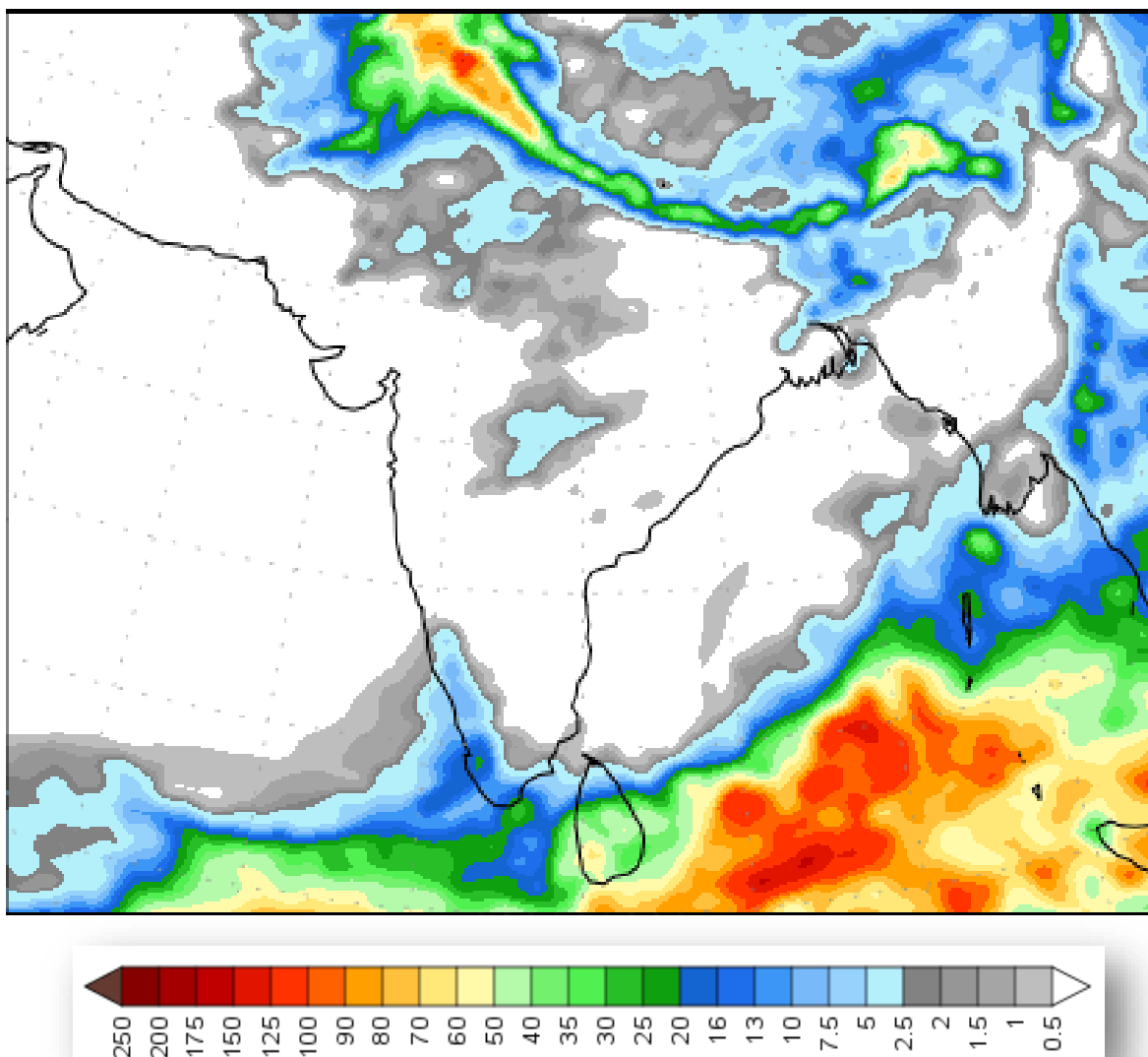
- Irrigated crops: Water management -Very Light rainfall is expected on 13.03.2021 to 17.03.2021 (8:30hrs). Irrigation may be given. .
- Chillies: Flowering to fruiting stage- Prevailing weather is conducive for Aphid. Spray Imidacloprid 17.8 % SL @ 3.5 ml/10 lit. Prevailing weather is conducive for Fruit Rot and Die Back. Spray copper oxychloride @1.25kg/acre not only reduced the disease incidence but also increased the yield of fruits. Prevailing weather is conducive for Gram caterpillar @ Emamectin benzoate 5 % SG @ 4 g/10 lit. Spray 19:19:19 + Mn @ 1 % for nutrient deficiency.
- Jasmine: Flowering stage Prevailing weather is conducive for Blossom midge. Spray Thiamethoxam 2.5% WG @ 0.75 g/litre (or) Novaluron 3ml/lit. of water.
- Coconut: Seedling stage- Rhinoceros beetle damage- Soak castor cake at 1 kg in 5 liter of water in small mud pots and keep them in the coconut gardens to attract and kill the adults. Apply mixture of either neem seed powder + sand (1:2) @150 g per palm or neem seed kernel powder + sand (1:2) @150 g per palm in the base of the 3 inner most leaves in the crown.
- Animal husbandry: Livestock Disease Forecast of March month. Increase in temperature. Provide adequate water. Cover the shed with gunny bags and spray the water to maintain coolness. Very low risk- Bluetongue Livestock Disease Foot and mouth disease. Preventive Measures: Regular vaccination and seromonitoring. Disinfection with sodium carbonate (4%) or 10% washing soda and strict biosecurity measures to be followed and animal movement May be controlled.

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

24-03-2021/(0900 to 0926) GMT  
 24-03-2021/(1430 to 1456) IST



**Figure: 1. Latest available satellite picture as on 24 March 2021 at 1456 Hrs (IST). (Source: IMD).**



**Figure:2. Precipitation forecast for 24 Mar to 01 Apr 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.*