

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

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

### **Daily Crop Weather Information as on 22 February 2021**

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

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

- Under the influence of a fresh Western Disturbance:
  - (i) Fairly widespread to widespread rainfall/snowfall very likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad; isolated to scattered rainfall/snowfall over Himachal Pradesh for next 3 days and fairly widespread for subsequent 2 days and isolated to scattered rainfall/snowfall over Uttarakhand during next 5 days.
  - (ii) Isolated thunderstorm/lightning very likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad during next 5 days and over Himachal Pradesh and Uttarakhand during 23rd-26th February, 2021. Isolated Hailstorm also very likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad on 24th & 25th; Himachal Pradesh on 25th & 26th and over Uttarakhand during 23rd-26th February, 2021.
  - (iii) Isolated heavy rainfall/snowfall very likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad on 25th & 26th and over Himachal Pradesh on 26th February, 2021.

A cyclonic circulation at 5.8 km above mean sea level lies over north Kerala & neighbourhood. Under its influence, light to moderate rainfall at a few places with isolated thunderstorm & lightning very likely over Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe during next 24 hours.

- 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 many places over Karnataka and Lakshadweep; at a few places over Rayalaseema and Kerala & Mahe and at isolated places over Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Telangana and Konkan & Goa.
- Heavy to very heavy rainfall observed at isolated places over Tamil Nadu, Puducherry & Karaikal.

- Thunderstorms observed (from 0830 hours IST yesterday to 0830 hours IST of today): at isolated places over South Interior Karnataka and Kerala.
- Fog observed (at 0830 hours IST of today): Dense to very dense fog in isolated pockets over Haryana; dense fog in some pockets over Punjab and shallow fog in isolated pockets over Uttarakhand, Uttar Pradesh and north Rajasthan.
- Maximum Temperature Departures as on 21-02-2021: Maximum temperatures were markedly above normal (5.1°C or more) at many places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and West Rajasthan; at a few places over Himachal Pradesh, Konkan & Goa, Assam & Meghalaya and Arunachal Pradesh; at isolated places over Saurashtra & Kutch; appreciably above normal (3.1°C to 5.0°C) at many places over Uttarakhand and Sub-Himalayan West Bengal & Sikkim; at isolated places over East Rajasthan and Gujarat region; above normal (1.6°C to 3.0°C) at most places over Punjab and Haryana, Chandigarh & Delhi; at many places over West Uttar Pradesh; at isolated places over Madhya Pradesh, Bihar and Gangetic West Bengal. They were markedly below normal (-5.1°C or less) at many places over Rayalaseema and South Interior Karnataka; at a few places over Tamil Nadu, Puducherry & Karaikal and Coastal Andhra Pradesh & Yanam; appreciably below normal (-3.1°C to -5.0°C) at many places over Madhya Maharashtra; at a few places over North Interior Karnataka; at isolated places over Telangana; below normal (-1.6°C to -3.0°C) at most places over Chhattisgarh; at many places over Marathwada and at isolated places over Odisha and Andaman & Nicobar Islands and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 38.0°C was reported at Rentachintala (Coastal Andhra Pradesh) over the country.
- Minimum Temperature Departures as on 22-02-2021: Minimum temperatures are markedly above normal (5.1°C or more) at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; appreciably above normal (3.1°C to 5.0°C) at many places over Himachal Pradesh, Uttarakhand and Konkan & Goa; at a few places over Madhya Maharashtra; at isolated places over SubHimalayan West Bengal & Sikkim, West Rajasthan, Saurashtra & Kutch and Andaman & Nicobar Islands; above normal (1.6°C to 3.0°C) at many places over Punjab and Coastal Karnataka; at a few places over Arunachal Pradesh and Tamilnadu, Puducherry & Karaikal; at isolated places over Haryana, Chandigarh & Delhi, East Uttar Pradesh, Gujarat Region and Kerala & Mahe. They are appreciably below normal (-3.1°C to - 5.0°C) at isolated places over East Rajasthan, Odisha, Coastal Andhra Pradesh & Yanam and Lakshadweep; below normal (-1.6°C to -3.0°C) at a few places over East Madhya Pradesh, Vidarbha and

South Interior Karnataka; at isolated places over Gangetic West Bengal and near normal over rest parts of the country. The lowest minimum temperature of 7.0°C reported at Narnaul (Haryana) over the plains of the country

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

- 22 February (Day 1): Thunderstorm with lightning very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Konkan & Goa, Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. Dense Fog very likely in isolated pockets over Punjab and Haryana, Chandigarh & Delhi.
- 23 February (Day 2): Thunderstorm with lightning & hail very likely at isolated places over Uttarakhand and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Himachal Pradesh.
- 24 February (Day 3): Thunderstorm with lightning & hail very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Uttarakhand and with lightning at isolated places over Himachal Pradesh.
- 25 February (Day 4): Heavy rainfall/snowfall likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad. Thunderstorm with lightning & hail likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh and Uttarakhand.
- 26 February (Day 5): Heavy rainfall/snowfall likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Himachal Pradesh. Thunderstorm with lightning & hail likely at isolated places over Himachal Pradesh and Uttarakhand and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad.
- The weather outlook for seven days i.e., 22 Feb to 02 March 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)**

#### **Marathwada**

#### **Weather condition:**

At Parbhani centre: 12 to 18 Feb (SMW 7) during this period 1.8 mm rainfall was recorded. The Maximum temperature was range from 31.6 to 34.1 0C and minimum temperature range from 12.5 to 16.2 0C. Relative humidity (RH I) ranged between 65 to 92 % and relative humidity (RH II) recorded was 18 % to 30 %. The wind speed varied between 1.8 to 5.2 km/hr.

### Contingency measure:

- Rabi crops:Due to Forecast of Thunderstorm accompanied with Lightning and Rain with Possibility of Hail at isolated places, Harvesting of timely sown and mature rabi crops like Rabi Sorghum, Chickpea and Wheat should be done as early as possible and store them at safe places. The harvested crops should be collected and covered by plastic paper. Store the threshed crops in safe place (warehouse).
- Turmeric:Now a days harvesting, boiling, drying, polishing operations carried out in timely sown turmeric crop. Due to Forecast of Thunderstorm accompanied with Lightning and Rain with Possibility of Hail at isolated places, Turmeric crop should not be stored in open place.
- Citrus:Due to Forecast of Thunderstorm accompanied with Lightning and Rain with Possibility of Hail at isolated places, Harvesting of mature fruits of Citrus should be done as early as possible and store them at safe places.  
Grape:Due to Forecast of Thunderstorm accompanied with Lightning and Rain with Possibility of Hail at isolated places, Harvesting of mature grapes should be done as early as possible and store them at safe places.
- Banana:Due to Forecast of Thunderstorm accompanied with Lightning and Rain with Possibility of Hail at isolated places, Bunch support or bunch propping is necessary in banana orchard sown in the month of June.
- Vegetable:Due to Forecast of Thunderstorm accompanied with Lightning and Rain with Possibility of Hail at isolated places, harvesting of mature vegetable crops, Watermelon, Muskmelon etc. should be done.
- Animal:Due to Forecast of Thunderstorm accompanied with Lightning and Rain with Possibility of Hail at isolated places, Pets and livestock are particularly vulnerable to hail, so bring animals into shelter before storms being. During lighting don't stand nearer to trees.
- Fodder:Due to Forecast of Thunderstorm accompanied with Lightning and Rain with Possibility of Hail at isolated places, Precaution should be taken so that the harvested dry stover of sorghum not damaged by unseasonal rains, if it happens the quality as well as storage capacity of dry stover decrease and animals not prefer such type of fodder.
- Floriculture:Due to Forecast of Thunderstorm accompanied with Lightning and Rain with Possibility of Hail at isolated places, harvesting of mature flowers should be done and send it to market by grading.
- Community science:An adult man should drink 3 liters and adult woman should drink 2 liters of water daily.

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

22-02-2021/(0800 to 0827) GMT  
22-02-2021/(1330 to 1357) IST

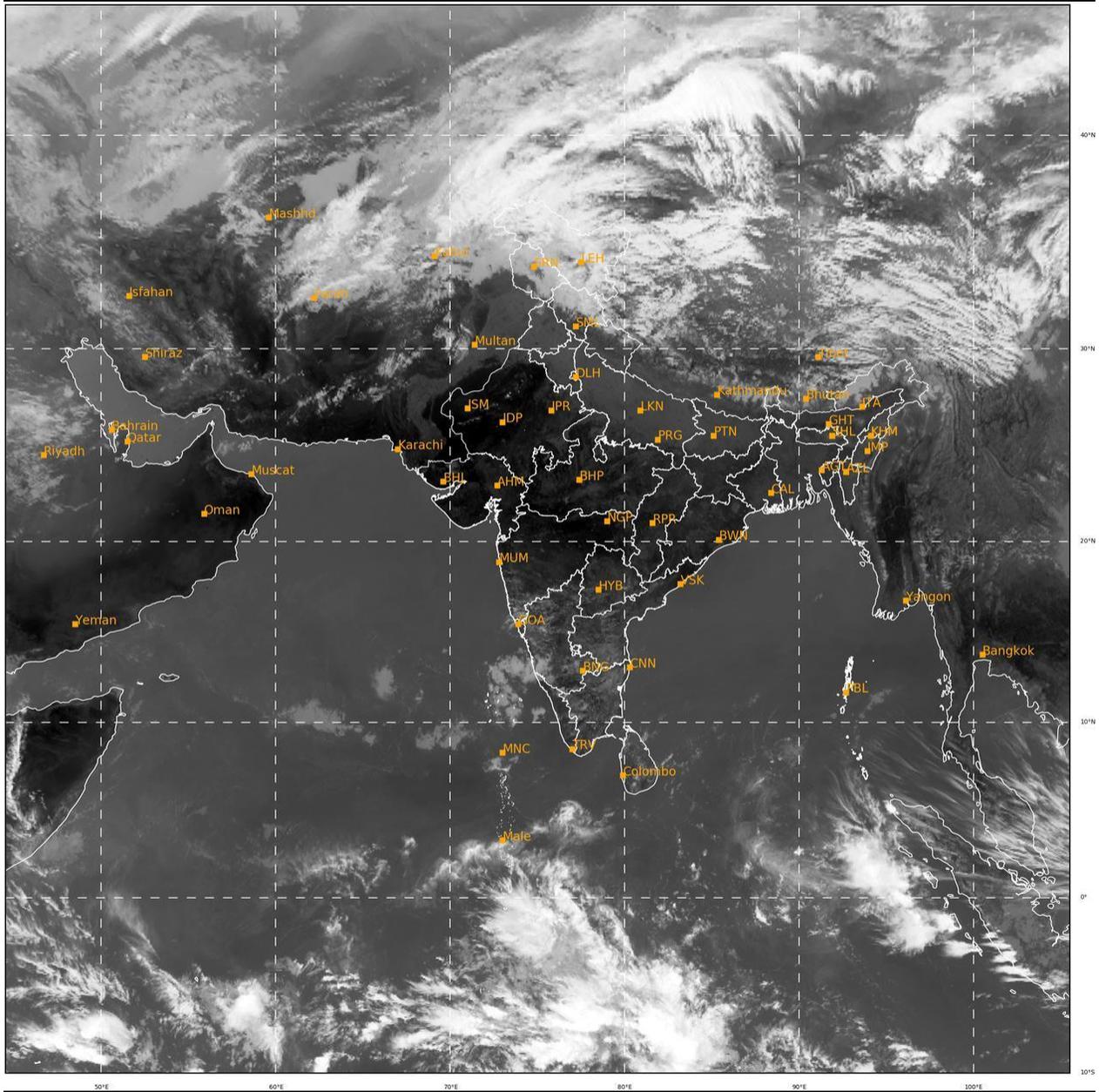
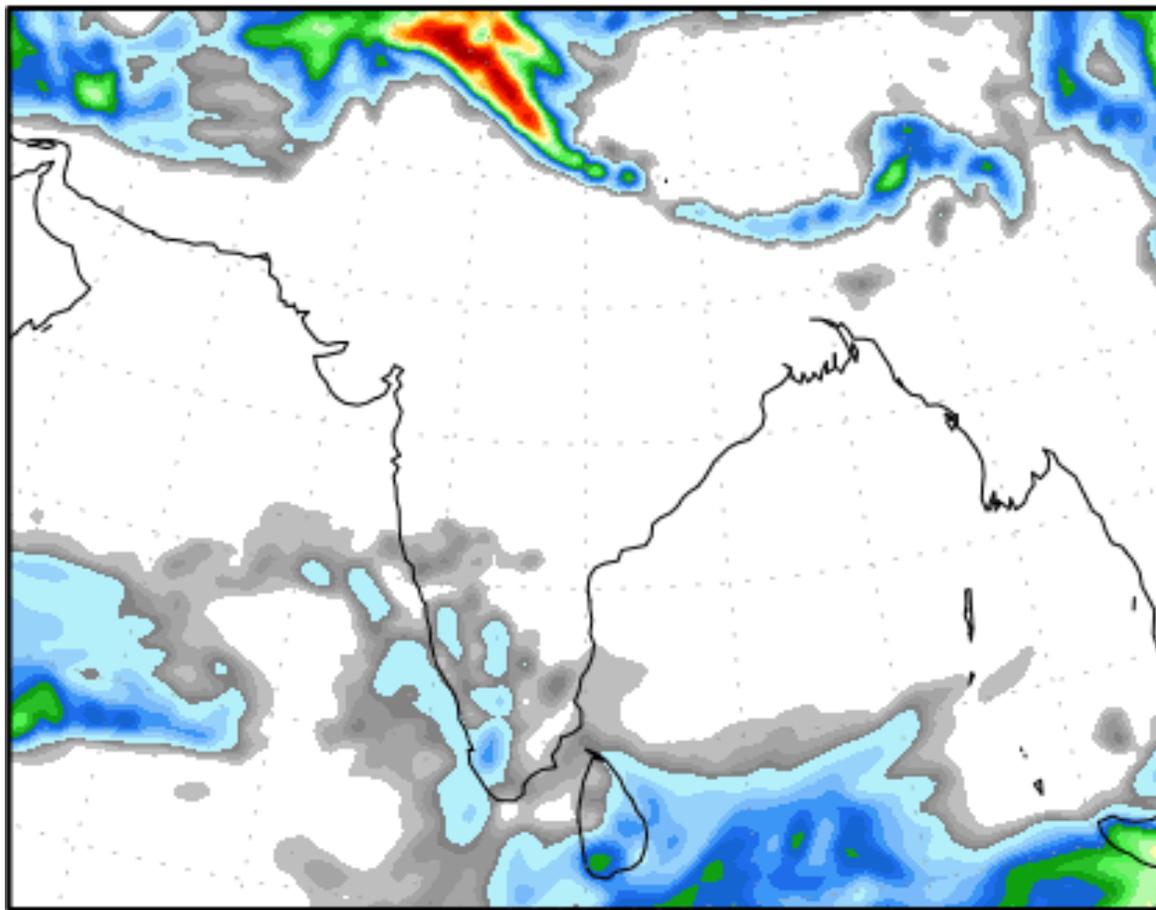


Figure: 1. Latest available satellite picture as on 22 February 2021 at 1357 Hrs (IST).  
(Source: IMD).



**Figure:2. Precipitation forecast for 22 Feb to 02 March 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.*