

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

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

### **Daily Crop Weather Information as on 31 March 2021**

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

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

- A Low Pressure Area lies over Southeast Bay of Bengal & adjoining south Andaman Sea. It is likely to become more marked over central parts of Andaman Sea & neighbourhood during next 24 hours and likely to concentrate into a Depression over the same region during subsequent 24 hours. Under its influence:  
(i) Widespread to scattered rainfall very likely over Andaman & Nicobar Islands during next 5 days and isolated heavy falls during 31st March-01st April, 2021.  
(ii) Isolated thunderstorm, lightning & gusty winds also likely over Andaman & Nicobar Islands during next 3 days. (ii) Fishermen are advised not to venture into South Andaman Sea & adjoining Southeast Bay of Bengal during 31st March-01st April; into North Andaman Sea on 02nd April; into North Bay of Bengal and along & off north Odisha-West Bengal coast on 31st March, 2021.
- Under the influence of strong lower level south-westerly winds from the Bay of Bengal and other favourable meteorological conditions;  
(i) Fairly widespread to widespread rainfall with isolated thunderstorm/lightning & gusty winds very likely over Northeast India during 31st March-02nd April with maximum activity on 31st March, 2021.  
(ii) Isolated heavy falls also very likely over Arunachal Pradesh and Assam & Meghalaya on 31st March. It may cause landslide/mudslide and inundation in low lying areas over parts of Arunachal Pradesh and Assam & Meghalaya on 31st March.
- Maximum temperatures are very likely to fall by 2-4°C over most parts of Northwest and Central India during next 2-3 days leading to abatement of heat wave conditions from these regions from tomorrow onwards.
- Strong Surface Winds (speed reaching 30-40 kmph) over parts of Punjab, Rajasthan, Haryana, Chandigarh & Delhi, Uttar Pradesh, Madhya Pradesh during next 48 hours and over Jharkhand & Gangetic West Bengal 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 most places over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; at many places over Andaman & Nicobar Islands; at a few places over Sub-Himalayan West Bengal & Sikkim and at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad and Kerala & Mahe.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Assam & Meghalaya and Manipur.
- Heat Wave Conditions in some pockets with Severe Heat Wave Conditions in isolated pockets were observed over West Rajasthan and Heat Wave Conditions in isolated pockets over Himachal Pradesh, Madhya Pradesh, Jharkhand, Vidarbha, Odisha, Gangetic West Bengal, south West Uttar Pradesh and East Rajasthan.
- Maximum Temperature Departures as on 30-03-2021: Maximum temperatures were markedly above normal ( $5.1^{\circ}\text{C}$  or more) at many places over Himachal Pradesh, Uttarakhand, Uttar Pradesh, Jharkhand and Gangetic West Bengal; at a few places over Punjab and Madhya Pradesh and at isolated places over West Rajasthan, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal; appreciably above normal ( $3.1^{\circ}\text{C}$  to  $5.0^{\circ}\text{C}$ ) at most places over East Rajasthan and Vidarbha; at many places over Chhattisgarh and Haryana, Chandigarh & Delhi; at a few places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Bihar, Konkan & Goa and Telangana and at isolated places over Saurashtra & Kutch; above normal ( $1.6^{\circ}\text{C}$  to  $3.0^{\circ}\text{C}$ ) at most places over Marathwada; at many places over Coastal Karnataka; at a few places over Kerala & Mahe. They were markedly below normal ( $-5.1^{\circ}\text{C}$  or less) at a few places over Andaman & Nicobar Islands; appreciably below normal ( $-3.1^{\circ}\text{C}$  to  $-5.0^{\circ}\text{C}$ ) at many places over Arunachal Pradesh and Assam & Meghalaya and at a few places over Sub-Himalayan West Bengal & Sikkim and Nagaland, Manipur, Mizoram & Tripura and below normal ( $-1.6^{\circ}\text{C}$  to  $-3.0^{\circ}\text{C}$ ) at a few places over Interior Karnataka and at isolated places over Madhya Maharashtra and near normal over rest parts of the country. Yesterday, the highest maximum temperature of  $44.6^{\circ}\text{C}$  was reported at Baripada (Odisha) over the country.
- Minimum Temperature Departures as on 31-03-2021: Minimum temperatures are markedly above normal ( $5.1^{\circ}\text{C}$  or more) at a few places over West Rajasthan, Madhya Pradesh, Chhattisgarh and Jharkhand; appreciably above normal ( $3.1^{\circ}\text{C}$  to  $5.0^{\circ}\text{C}$ ) at most places over East Uttar Pradesh; at many places Haryana, Chandigarh & Delhi, West Uttar Pradesh and Gujarat state; at a few places over

East Rajasthan, Odisha, Bihar, Gangetic West Bengal; at isolated places over Himachal Pradesh; above normal (1.6°C to 3.0°C) at many places over Coastal Karnataka, Coastal Andhra Pradesh & Yanam and Sub-Himalayan West Bengal & Sikkim; at a few places over Lakshadweep, South Interior Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal, Rayalseema, Andaman & Nicobar Islands and Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad. They are below normal (-1.6°C to -3.0°C) at a few places over Madhya Maharashtra and at isolated places over Telangana and near normal over rest parts of the country. Today, the lowest minimum temperature of 12.0°C is reported at Una (Himachal Pradesh) over the plains of the country.

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

- 31 March (Day 1):Thunderstorm with lightning & gusty winds (speed reaching 40-50 kmph) very likely at isolated places over SubHimalayan West Bengal & Sikkim; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Bihar, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Kerala & Mahe. Heavy rainfall very likely at isolated places over Andaman & Nicobar Islands, Assam & Meghalaya, Arunachal Pradesh and SubHimalayan West Bengal & Sikkim. Heat Wave to Severe Heat Wave Conditions very likely in isolated pockets over Odisha; Heat Wave Conditions over East Uttar Pradesh, Bihar, Madhya Pradesh, Vidarbha, West Rajasthan, Jharkhand, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal. Strong winds (speed reaching 40-50 kmph) very likely over south Andaman Sea & adjoining Southeast Bay of Bengal, North Bay of Bengal, along & off north Odisha-West Bengal coasts and Gulf of Mannar. Fishermen are advised not to venture into these areas.
- 01 April (Day 2):Thunderstorm with lightning & squall (speed reaching 50-60 kmph) very likely at isolated places over Andaman & Nicobar Islands; with lightning & squall (speed reaching 45-55 kmph) at isolated places over Sub-Himalayan West Bengal & Sikkim; with lightning and gusty winds (speed reaching 30-40 kmph) at isolated places over Arunachal Pradesh and Assam & Meghalaya and with lightning at isolated places over Kerala & Mahe. Heavy rainfall very likely at isolated places over Andaman & Nicobar Islands. Heat Wave Conditions very likely in isolated pockets over Odisha, Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal. Strong winds (speed reaching 40-50 kmph) very likely over south Andaman Sea & adjoining Southeast Bay of Bengal, Westcentral Bay of Bengal, along & off Andhra Pradesh coast and

Gulf of Mannar, along & off Tamil Nadu coast. Fishermen are advised not to venture into these areas.

- 02 April (Day 3): Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over SubHimalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Odisha and with lightning at isolated places over Kerala & Mahe Heat Wave Conditions very likely in isolated pockets over Coastal Andhra Pradesh & Yanam, Tamilnadu, Puducherry & Karaikal and Saurashtra & Kutch. Strong winds (speed reaching 45-55 kmph) very likely over north Andaman Sea; speed reaching 40-50 kmph over Westcentral Bay of Bengal, along & off Andhra Pradesh coast, Gulf of Mannar, along & off Tamil Nadu coast and Comorin area. Fishermen are advised not to venture into these areas.
- 03 April (Day 4):Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Gangetic West Bengal and Odisha and with lightning at isolated places over Kerala & Mahe. Heat Wave Conditions very likely in isolated pockets over Tamilnadu, Puducherry & Karaikal and Saurashtra & Kutch.
- 04 April (Day 5): Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Gangetic West Bengal and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Kerala & Mahe. Heat Wave Conditions very likely in isolated pockets over Tamilnadu, Puducherry & Karaikal
- The weather outlook for seven days i.e., 31 Mar to 08 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)**

### **Western U.P**

#### **Weather condition:**

Weather will be mainly dry, light to medium cloud appearing on 24 and 25 March but no rainfall forecast during this week. Maximum & minimum temperature prevailing 1-2 0C above to its normal temperature. South Westerly/ North Westerly winds may be expected and prevailing 3 to 4 km higher than its normal during this week as per forecast.

#### **Contingency measure:**

- Wheat: Day and night temperature going to 2-3 0C higher to the normal therefore, farmers are advised for light irrigation should be given at evening in late sown

wheat crop.

- Barley :Harvest mature crop. Rabi maize :Day and night temperature higher to its normal therefore, farmers are advised for light irrigation should be given at evening in dough stage of maize crop.
- Pigeon pea: Watchful insect and pest due to cloudy weather and higher temperature. . If seen pad borer spray Chlorpyrifos 50% + Cypermethrin 5% EC @1.0 lt. with 500 to 600 lt. water solution after 13 march.
- Pea :Harvest mature crop.
- Gram: Watchful insect and pest due to cloudy weather and higher temperature. If seen pad borer spray Chlorpyrifos 50% + Cypermethrin 5% EC @1.0 lt. with 500 to 600 lt. water solution after 13 march.
- Lentil: Harvest mature crop. Zaid urd and moong: Sowing should be done.
- Mustard : Harvest mature crop.
- Linseed :Harvest mature crop. Brinjal / Chilies: Irrigation should be taken up. Pick up mature fruits in standing crop.
- Leafy Vegetable: Irrigation should be taken up. Cutting , marketing .
- Potato: Dig out crop. Barseem: Stop cutting if crop used for seed production and light moisture should be maintained .
- Animal: Balanced diet should be given for milch animal. Fresh water used for dirking 2 or 3 time and bathing should be taken up at morning. The routine immunization of animals becomes necessary since disease decrease milk production capacity among milch animals if need concerned near Veterinary hospital.

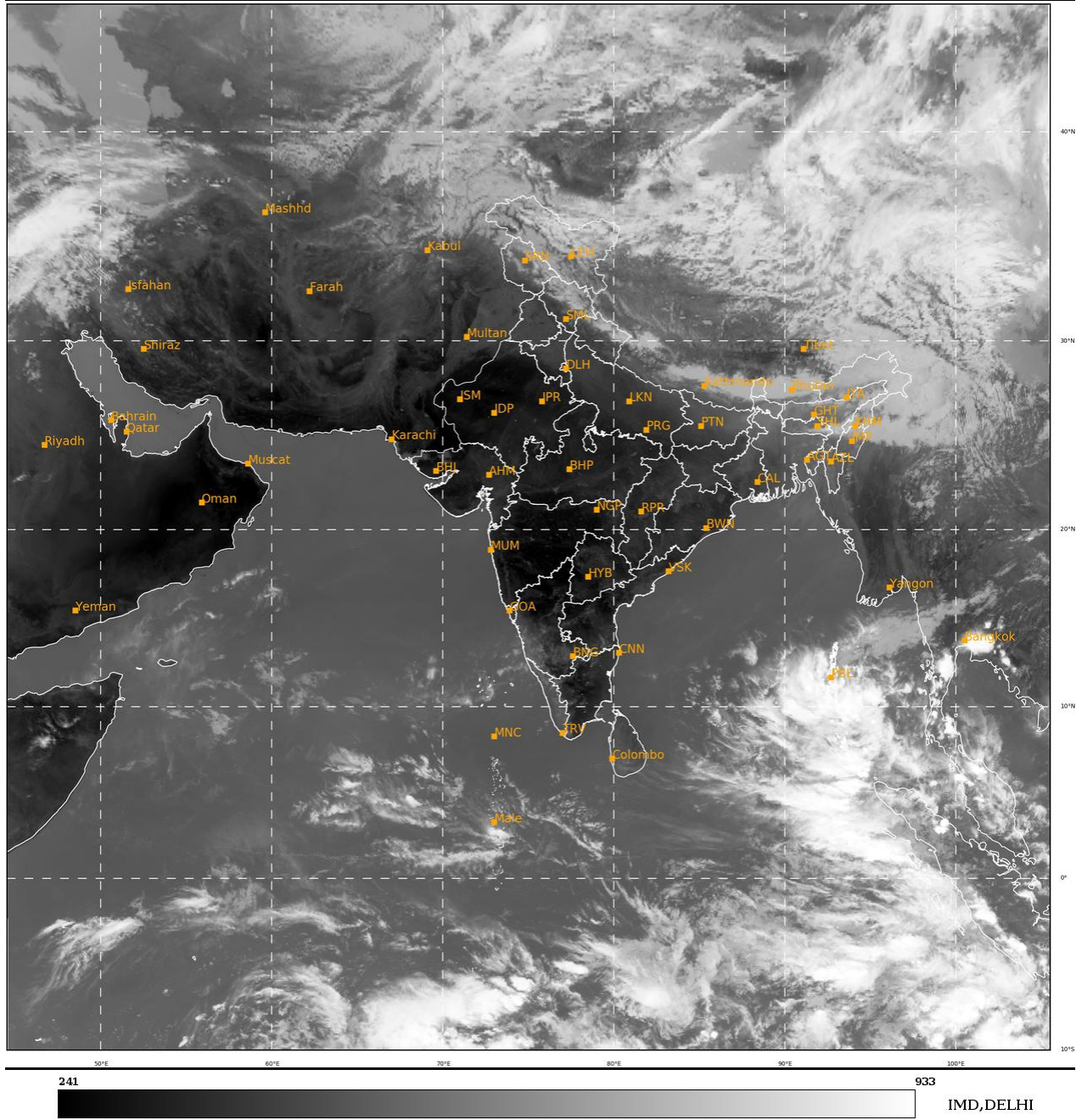
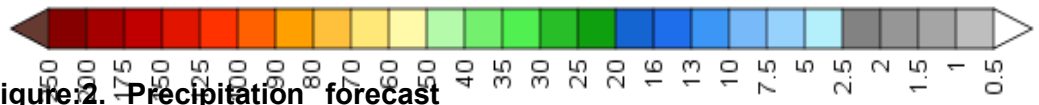
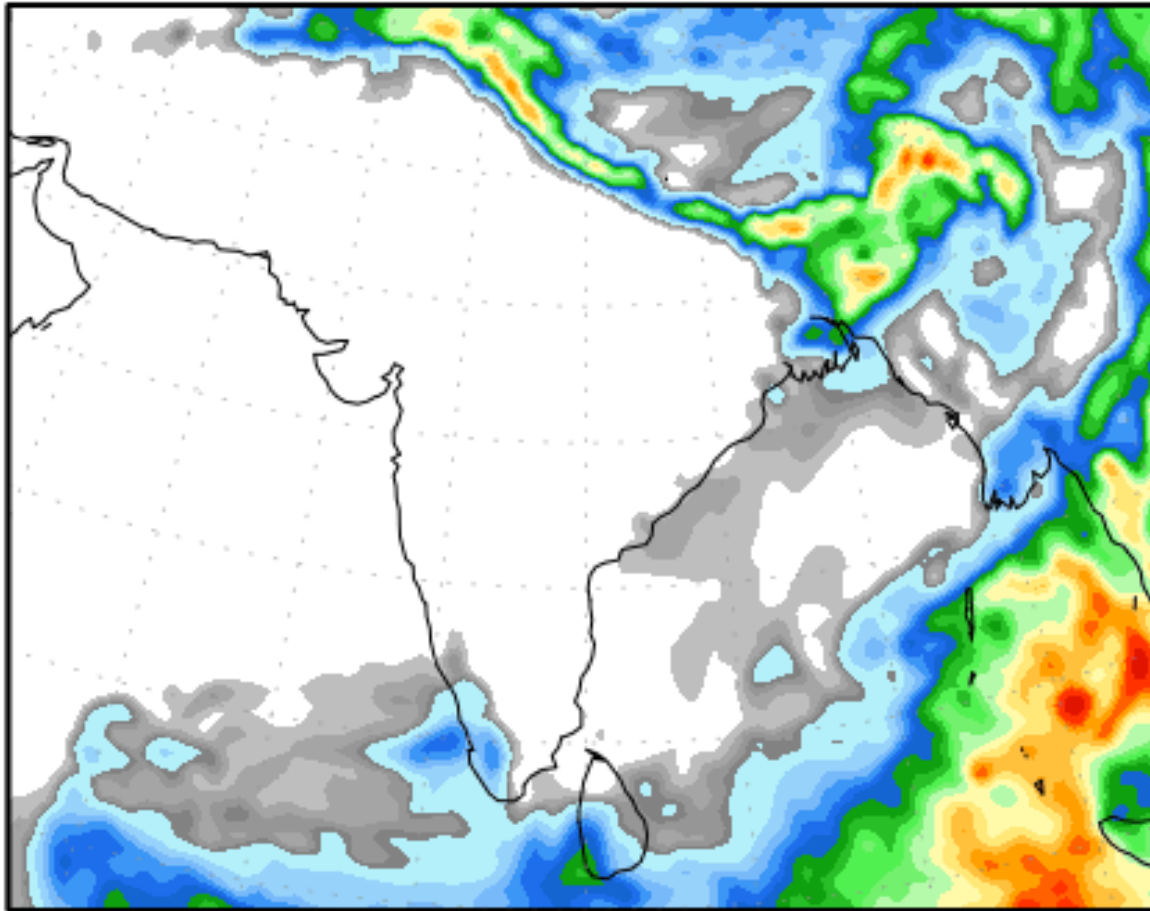


Figure: 1. Latest available satellite picture as on 31 March 2021 at 1356 Hrs (IST). (Source: IMD).



**Figure 2. Precipitation forecast for 31 Mar to 08 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.*