

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 27 March 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A fresh Western Disturbance is likely to affect Western Himalayan Region from 28th March. Under its influence, scattered to fairly widespread rainfall/snowfall with thunderstorm & lightning likely over Western Himalayan Region during 28th-29th March. Isolated thunderstorm, lightning & hail very likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad and Himachal Pradesh on 28th March.
- Under the influence of strong lower level south-westerlies from the Bay of Bengal and other favourable meteorological conditions, fairly widespread to widespread rainfall with thunderstorm/thundersquall/lightning at isolated places are very likely over Northeast India during 29th March-02nd April with maximum activity during 30th-31st March. Isolated heavy falls on 29th & 31st March and isolated heavy to very heavy falls on 30th March are very likely over south Assam, Meghalaya, Nagaland, Manipur, Mizoram & Tripura. Isolated heavy rainfall also likely over Arunachal Pradesh on 31st March.
- Rise in maximum temperatures by 3-4°C over the plains of Northwest India during next 48 hours and fall by 3-4°C during subsequent 2 days. Gradual rise in maximum temperatures by 2-4°C over most parts of interior Maharashtra during next 2 days and no significant change thereafter.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rain/Thundershowers observed (0830 hrs IST of yesterday to 0830 hours IST of today): at isolated places over Tamilnadu, Puducherry & Karaikal and Andaman & Nicobar Islands.
- Heat Wave Conditions to Severe Heat Wave Conditions observed in a few pockets over Saurashtra & Kutch and Heat Wave Conditions in a few pockets with Severe Heat Wave Conditions in isolated pockets over Konkan & Goa.
- Maximum Temperature Departures as on 26-03-2021: Maximum temperatures were markedly above normal (5.1°C or more) at a few places over Himachal

Pradesh, Uttarakhand, Saurashtra & Kutch, Konkan & Goa, Arunachal Pradesh and Assam & Meghalaya and at isolated places over Gangetic West Bengal; appreciably above normal (3.1°C to 5.0°C) at many places over West Rajasthan and at a few places over Nagaland, Manipur, Mizoram & Tripura, Punjab, Gujarat Region and Coastal Karnataka; above normal (1.6°C to 3.0°C) at many places over Jharkhand, Sub-Himalayan West Bengal & Sikkim, Odisha and Coastal Andhra Pradesh & Yanam; at a few places over Kerala & Mahe and at isolated places over West Madhya Pradesh. They were below normal (-1.6°C to -3.0°C) at a few places over Andaman & Nicobar Islands and at isolated places over Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 40.8°C was reported at Bhuj-Rudramata (Saurashtra & Kutch) over the country.

- Minimum Temperature Departures as on 27-03-2021: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at many places over Andaman & Nicobar Islands, at isolated places over Saurashtra & kutch; above normal (1.6°C to 3.0°C) at most places over Coastal Karnataka; at many places over West Rajasthan, Arunachal Pradesh and North Interior Karnataka; at a few places over Konkan & Goa and Kerala & Mahe and at isolated places over Himachal Pradesh, Madhya Maharashtra and Tamilnadu, Puducherry & Karaikal. They are appreciably below normal (-3.1°C to -5.0°C) at a few places over Bihar and Telangana; below normal (-1.6°C to -3.0°C) at most places over Vidarbha; at many places over East Utter Pradesh and East Madhya Pradesh; at a few places over Assam & Meghalaya, West Madhya Pradesh, East Rajasthan, Haryana, Chandigarh & Delhi, Telangana, Rayalseema, South Interior Karnataka and Costal Andhra Pradesh & Yanam and at isolated places over Gangetic West Bengal and near normal over rest parts of the country. Today, the lowest minimum temperature of 11.4°C is reported at Pantnagar (Uttarakhand) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 27 March (Day 1): Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Kerala & Mahe and Tamilnadu, Puducherry & Karaikal and with lightning at isolated places over Odisha, Coastal Andhra Pradesh & Yanam and Lakshadweep. Heat wave conditions in some pockets with severe heat wave in isolated pockets very likely over Saurashtra & Kutch and heat wave conditions in isolated pockets over Gangetic West Bengal

and Konkan & Goa. Strong winds (speed reaching 40-50 kmph) very likely over Southwest Bay of Bengal. Fishermen are advised not to venture into these areas.

- 28 March (Day 2): Thunderstorm with lightning, hail & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad and Himachal Pradesh; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over West Bengal & Sikkim, Odisha and Kerala & Mahe and with lightning at isolated places over Uttarakhand, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Heat Wave to Severe Heat Wave Conditions very likely in isolated pockets over Saurashtra & Kutch. Strong winds (speed reaching 40-50 kmph) very likely over central parts of South Bay of Bengal. Fishermen are advised not to venture into these areas.
- 29 March (Day 3): Thunderstorm with lightning, hail & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; with lightning & gusty winds (speed reaching 50-60 kmph) at isolated places over Gangetic West Bengal; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Sub-Himalayan West Bengal & Sikkim and Kerala & Mahe and with lightning at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh and Uttarakhand. Heavy to very heavy rainfall very likely at isolated places over Meghalaya and heavy rainfall very likely at isolated places over south Assam, Mizoram & Tripura. Strong winds (speed reaching 40-50 kmph) very likely over Northwest Bay of Bengal and along & off Odisha-West Bengal coasts. Fishermen are advised not to venture into these areas.
- 30 March (Day 4): Thunderstorm with lightning and squall (speed reaching 50-60 kmph) likely at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; with lightning and gusty winds (speed reaching 30-40 kmph) at isolated places over West Bengal & Sikkim and Arunachal Pradesh and with lightning at isolated places over Andaman & Nicobar Islands and Kerala & Mahe. Heavy to very heavy rainfall likely at isolated places over Assam & Meghalaya and Mizoram & Tripura. Strong winds (speed reaching 45-55 kmph) very likely over Northwest Bay of Bengal and along & off Odisha-West Bengal coasts. Fishermen are advised not to venture into these areas.
- 31 March (Day 5): Thunderstorm with lightning and gusty winds (speed reaching 40-50 kmph) likely at isolated places over Assam & Meghalaya; with lightning and gusty winds (speed reaching 30-40 kmph) likely at isolated places over SubHimalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Arunachal

Pradesh and Nagaland, Manipur, Mizoram & Tripura and with lightning at isolated places over Kerala & Mahe. Heavy rainfall very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Strong winds (speed reaching 45-55 kmph) very likely over Northwest Bay of Bengal, along & off Odisha-West Bengal coasts and south Andaman Sea. Fishermen are advised not to venture into these areas

- The weather outlook for seven days i.e., 27 Mar to 04 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.

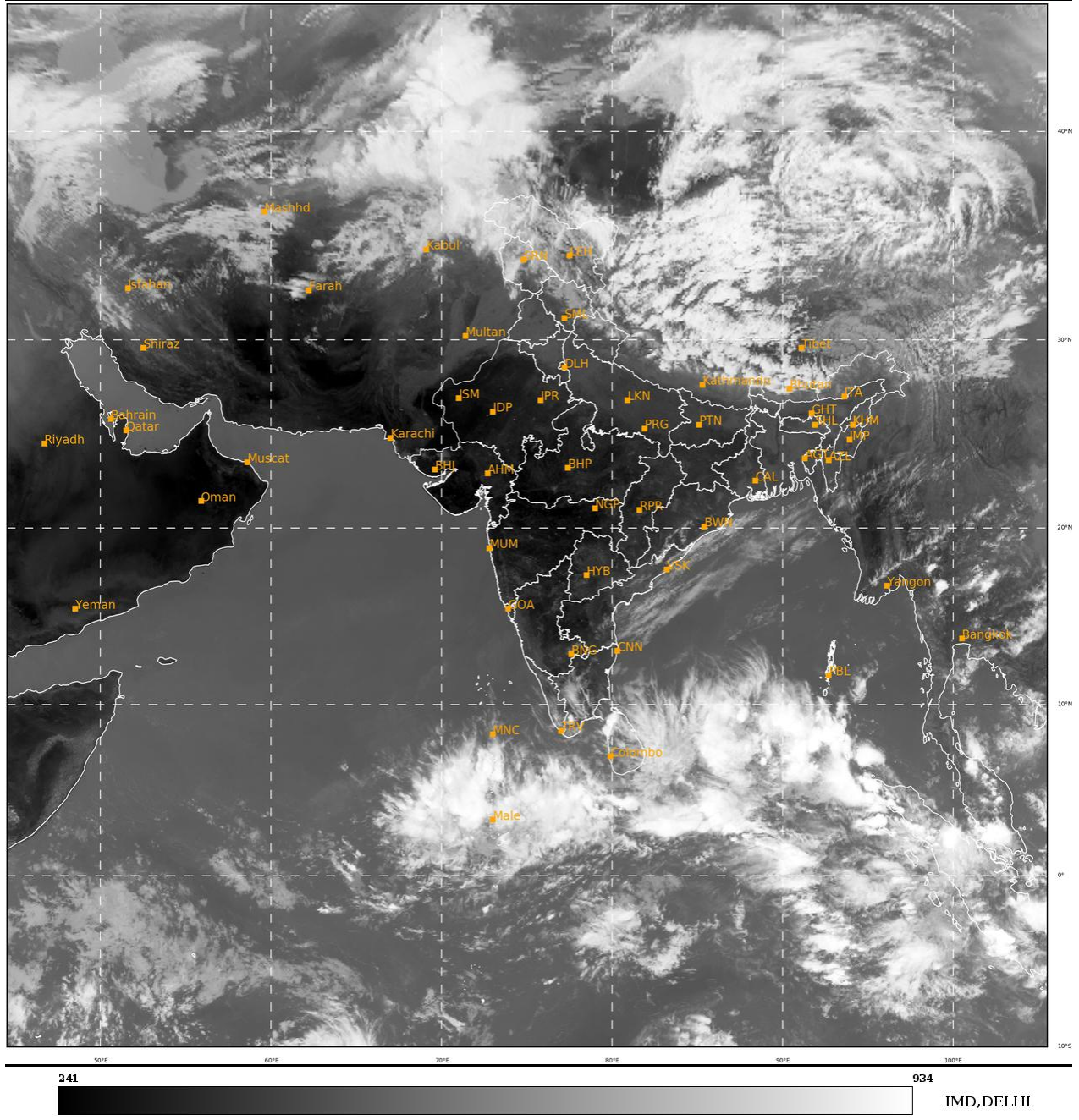


Figure: 1. Latest available satellite picture as on 27 March 2021 at 1356 Hrs (IST). (Source: IMD).

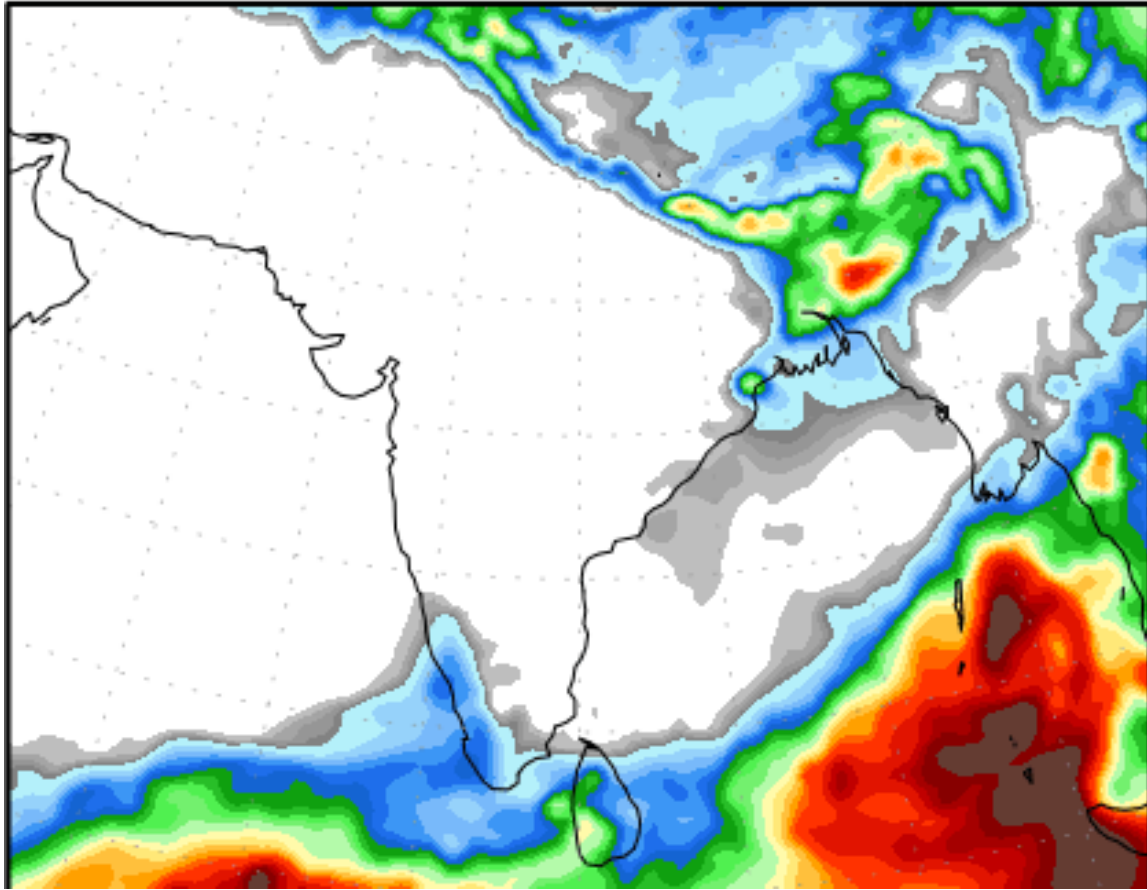


Figure:2. Precipitation forecast for 27 Mar to 04 Apr 2021 (Source: NOAA NCEP).

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