

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 25 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 Himachal Pradesh and Uttarakhand and also thunderstorm, lightning & hail likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad during 28th-29th March.
- Under the influence of strong lower level southwesterlies from the Bay of Bengal, fairly widespread rainfall with thunderstorm/thundersquall/lightning and heavy falls at isolated places are likely over Northeast India during 29th March-02nd April with maximum activity during 30th-31st March, 2021.
- No significant change in maximum temperatures over most parts of Northwest India during next 24 hours and rise by 4-6°C over Northwest India during subsequent 3 days. Gradual rise in maximum temperatures by 3-5°C over most parts of Central India and by 2-4°C over most parts of East, West and peninsular India during next 3-4 days. No heat wave conditions very likely over the country during next 4-5 days except Saurashtra & Kutch and Konkan & Goa where heat wave conditions are very likely at isolated pockets during 25th-27th March and over north Gujarat region during 27th-28th March.
- Strong Surface Winds (with speed reaching 20-30 kmph) very likely to prevail over plains of Northwest India on 25th March.
- 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; at many places over Arunachal Pradesh and Coastal Karnataka; at a few places over Himachal Pradesh and Sub-Himalayan West Bengal & Sikkim and at isolated places over Assam & Meghalaya, Madhya Pradesh, Odisha, Madhya Maharashtra, North Interior Karnataka, Kerala & Mahe and Andaman & Nicobar Islands.

- Thunderstorm observed (from 1730 hrs IST of yesterday to 0830 hrs IST of today): at isolated places over Arunachal Pradesh, Assam & Meghalaya, Chattisgarh, North Interior Karnataka, Coastal Karnataka, Madhya Maharashtra, Marathwada Lakshadweep and Kerala & Mahe.
- Maximum Temperature Departures as on 24-03-2021: Maximum temperatures were markedly above normal (5.1°C or more) at many places over Arunachal Pradesh and Assam & Meghalaya; appreciably above normal (3.1°C to 5.0°C) at many places over Konkan & Goa and Sub-Himalayan West Bengal & Sikkim; at a few places over Himachal Pradesh, Saurashtra & Kutch and Odisha; above normal (1.6°C to 3.0°C) at most places over Uttarakhand, Coastal Karnataka and Gangetic West Bengal; at many places over Punjab, Gujarat region and Coastal Andhra Pradesh & Yanam; at a few places over Kerala & Mahe, Bihar and Jharkhand and at isolated places over West Uttar Pradesh and Tamilnadu, Puducherry & Karaikal. They were below normal (-1.6°C to -3.0°C) at many places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Vidarbha; at a few places over Andaman & Nicobar Islands and Madhya Maharashtra and at isolated places over Madhya Pradesh and Telangana and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 40.0°C was reported at Baripada and Bhubaneswar (Odisha) over the country.
- Minimum Temperature Departures as on 25-03-2021: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at a few places over Andaman & Nicobar Islands; at isolated places over Sub-Himalayan West Bengal & Sikkim; above normal (1.6°C to 3.0°C) at most places over Assam & Meghalaya; at many places over Jharkhand, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa and Lakshadweep at a few places over East Uttar Pradesh, Bihar, Gangetic West Bengal, Gujarat and Madhya Maharashtra and at isolated places over West Uttar Pradesh, Madhya Pradesh, Kerala & Mahe, Tamilnadu, Puducherry & Karaikal and Odisha. They are below normal (-1.6°C to -3.0°C) at many places over Uttarakhand and Rayalseema; at a few places over Himachal Pradesh, Haryana, Chandigarh & Delhi and Coastal Andhra Pradesh & Yanam and at isolated places over East Rajasthan and Vidarbha and near normal over rest parts of the country. Today, the lowest minimum temperature of 13.0°C reported at Sikar (East Rajasthan) and Karnal (Haryana, Chandigarh & Delhi) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 25 March (Day 1): Thunderstorm with lightning and hail very likely at isolated places over SubHimalayan West Bengal & Sikkim and with lightning at isolated places over Arunachal Pradesh, Coastal & North Interior Karnataka, Kerala & Mahe and Lakshadweep. Heat Wave Conditions very likely at isolated places over Saurashtra & Kutch and Konkan & Goa.
- 26 March (Day 2): Thunderstorm with lightning very likely at isolated places over Sub-Himalayan West Bengal & Sikkim and Kerala & Mahe. Heat Wave Conditions very likely at isolated places over Saurashtra & Kutch and Konkan & Goa.
- 27 March (Day 3): Thunderstorm with lightning very likely at isolated places over Kerala & Mahe and Lakshadweep. Heat Wave Conditions very likely at isolated places over north Gujarat region, Saurashtra & Kutch and Konkan & Goa.
- 28 March (Day 4): Thunderstorm with lightning & hail likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad and Himachal Pradesh; with lightning and gusty winds (speed reaching 30-40 kmph) at isolated places over Gangetic West Bengal, Odisha and Nagaland, Manipur, Mizoram & Tripura and with lightning at isolated places over Uttarakhand, SubHimalayan West Bengal & Sikkim, Assam & Meghalaya, Lakshadweep and Kerala & Mahe. Heat Wave Conditions likely at isolated places over north Gujarat region.
- 29 March (Day 5): Thunderstorm with lightning and gusty winds (speed reaching 30-40 kmph) likely at isolated places over Gangetic West Bengal, Odisha, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura and with lightning at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Lakshadweep and Kerala & Mahe.
- The weather outlook for seven days i.e., 25 Mar to 02 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)

West Bengal

Weather condition:

Weather conditions during the 12th week at Mohanpur, West Bengal: Maximum temperature: 37.0 to 38.0 °C, minimum temperature: 18.5 to 23.5 °C, bright sun shine hours: 5.7 to 7.9 hours, Morning-time relative Humidity: 82 to 88 %, after noon-time R.H: 23 to 35%, weekly total pan evaporation: 30.7 mm, total weekly rainfall: 0.0 mm and average daily wind speed is around 0.83 km/h.

Contingency measure:

- Boro-Rice: Keep 5 to 7 cm stagnant water in the field. Apply second dose of top dressing at the rate of 25 Kg nitrogen per Ha of land. Rain is forecasted on 27th March, so, apply irrigation according to the rainfall scenario. To control Sheath Blight spray Propiconazole 25% EC 1 ml/lit, Validamycin 2 gram/lit of water, for Yellow Stem borer Spray Fipronil 1.5 ml/lit of water or Cypermethrin 2 ml/lit of water and for Bacterial leaf blight Spray Agrimycin 5 gram/18 lit of water.
- Cucumber: For small infestations, collect beetles using hand nets in the early hours of the morning when beetles are sluggish. Kill them in kerosene oil Spray wood ash onto crop. Add half a cup of wood ash and half a cup of lime to 4 L water. Test the strength on a few infested plants before spraying the whole crop Spray crop with neem seed oil and detergent (see label for dosage) at a 7 days interval;
- Bittergourd: Control weed properly. Due to increasing temperature soil is very dry irrigate the field at 15 days interval.;
- Mango: As the temperature is likely to be increased, so there is a chance of the attack of Mites. To control the pest, apply 1-2 gm sulphur pesticide per lt. of water.

SAT : INSAT-3D IMG
 IMG_TIR1 10.8 um
 L1C Mercator

25-03-2021/(0800 to 0826) GMT
 25-03-2021/(1330 to 1356) IST

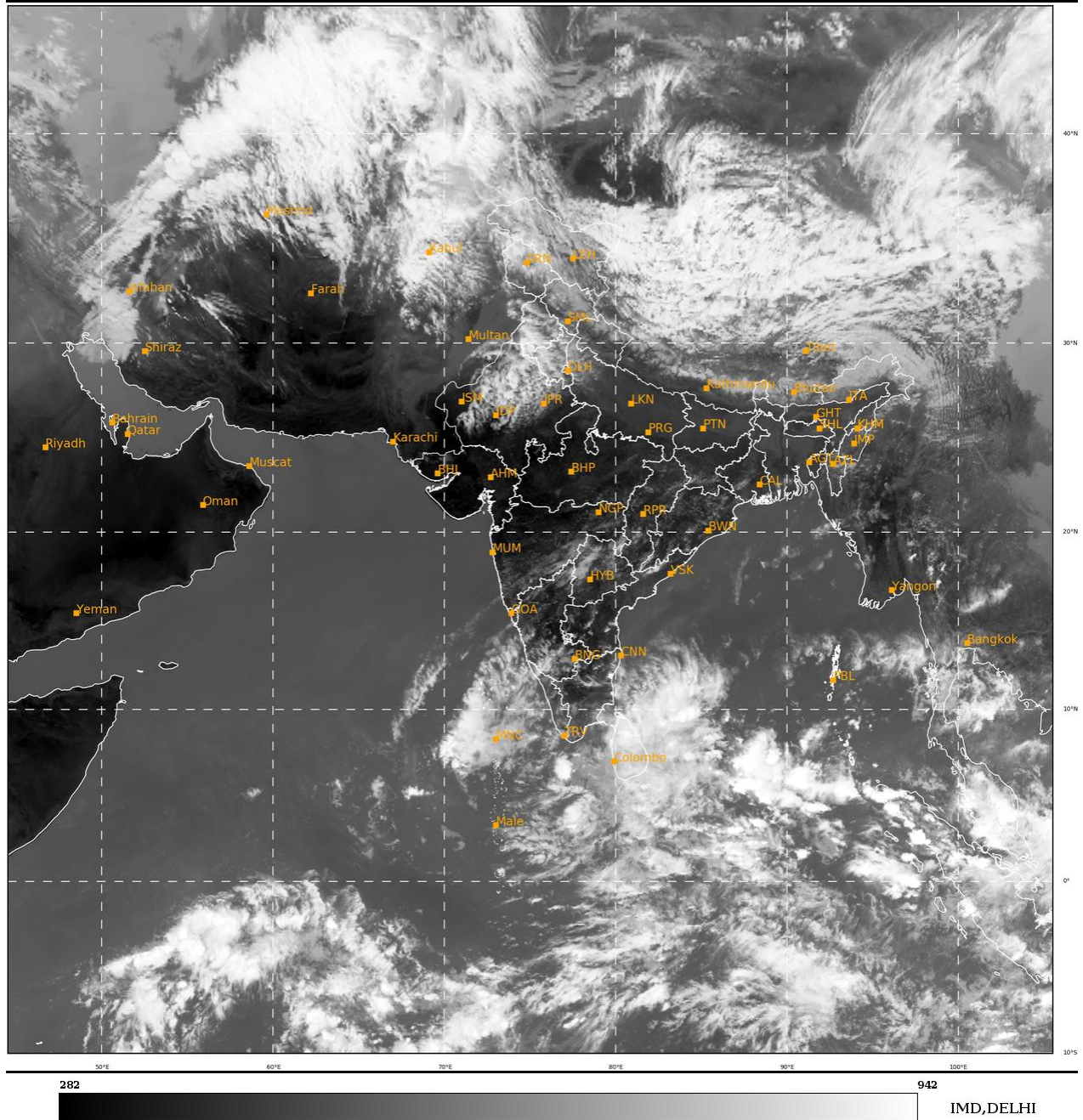


Figure: 1. Latest available satellite picture as on 25 March 2021 at 1356 Hrs (IST). (Source: IMD).

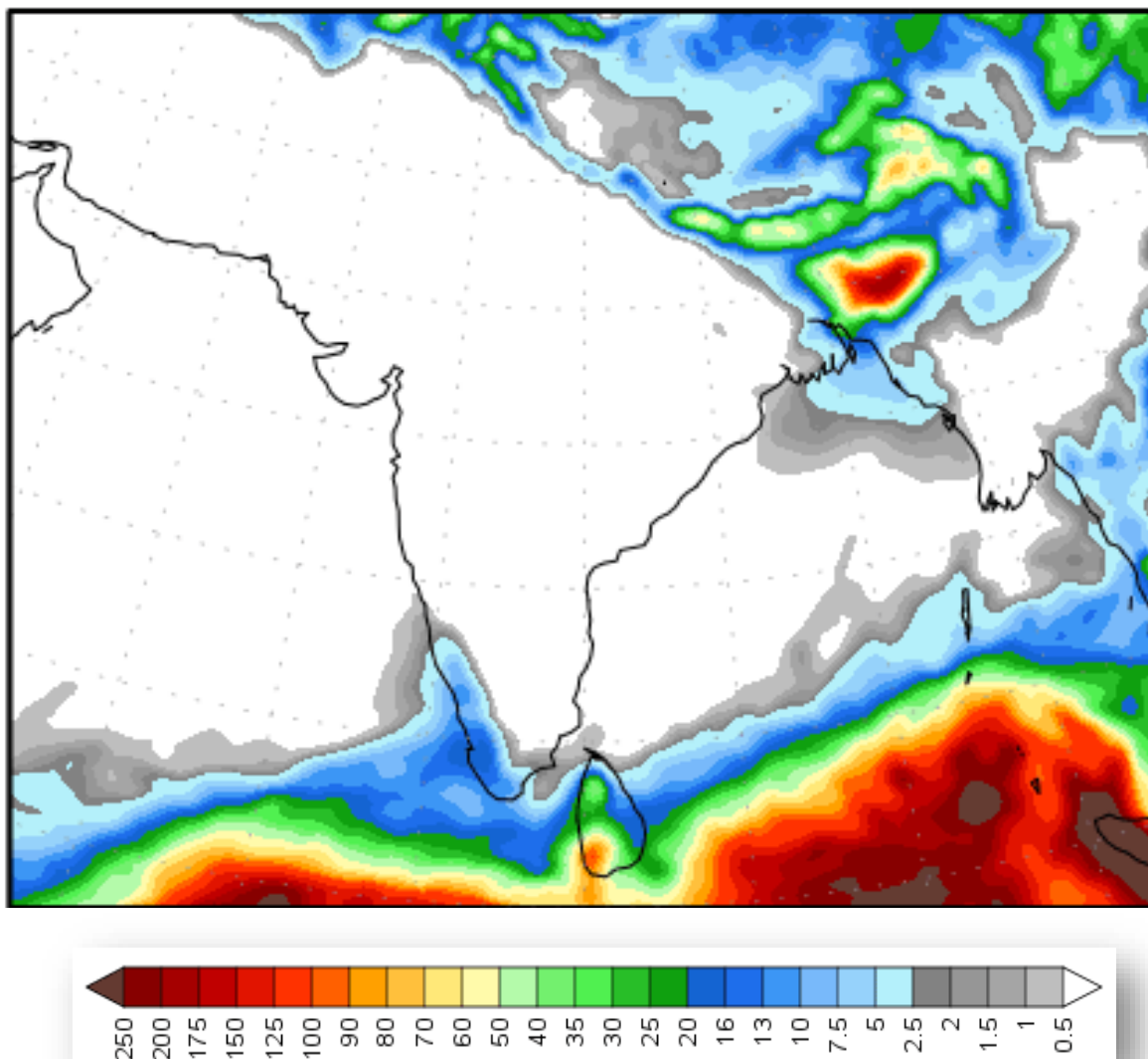


Figure:2. Precipitation forecast for 25 Mar to 02 Apr 2021 (Source: NOAA NCEP).

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