

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 01 March 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Maximum temperature is currently 3-6°C above normal over North and Central parts of India covering East Rajasthan, Haryana, Chandigarh & Delhi, Uttar Pradesh, east Vidarbha, Madhya Pradesh, Chhattisgarh, Odisha, Bihar, Jharkhand and Gangetic West Bengal. It is likely to fall by 1-2°C over Northwest & adjoining Central India during next 2 days (01st-03rd March). No significant change in maximum temperatures over rest parts of the country.
- A fresh Western Disturbance is likely to affect Western Himalayan Region from the night of 02nd March. Under its influence, isolated to scattered rainfall/snowfall with isolated thunderstorm/lightning likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh and Uttarakhand on 03rd March.
- Another fresh Western Disturbance is likely to affect Western Himalayan Region from the night of 05th March. Under its influence, scattered to fairly widespread rainfall/snowfall activity likely over the region during 06th-08th March with maximum intensity on 07th March.
- Isolated to scattered rainfall with peak thunderstorm/lightning very likely over Northeastern states during next 4-5 days.
- 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, at many places over Sub-Himalayan West Bengal & Sikkim and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Assam & Meghalaya and Uttarakhand. Fog reported at 0830 hours IST of today: Shallow Fog in isolated pockets over Sub-Himalayan West Bengal & Sikkim.
- Maximum Temperature Departures as on 28-02-2021: Maximum temperatures were markedly above normal (5.1°C or more) at most places over Uttarakhand, West Uttar Pradesh and Jharkhand; at many places over Punjab, East Madhya

Pradesh and East Uttar Pradesh; at a few places over Haryana, Chandigarh & Delhi, Himachal Pradesh, Bihar, Gangetic West Bengal and Odisha; at isolated places over East Rajasthan and West Madhya Pradesh; appreciably above normal (3.1°C to 5.0°C) at many places over Nagaland, Manipur, Mizoram & Tripura, Chhattisgarh and West Rajasthan; at a few places over Gujarat, Madhya Maharashtra, Konkan & Goa and Telangana and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Vidarbha; above normal (1.6°C to 3.0°C) at many places over Marathwada and Rayalaseema; at a few places over Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal; at isolated places over Kerala & Mahe and Karnataka. They were appreciably below normal (-3.1°C to -5.0°C) at a few places over Assam & Meghalaya; at isolated places over Arunachal Pradesh; below normal (-1.6°C to -3.0°C) at isolated places over Sub-Himalayan West Bengal & Sikkim and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 40.0°C was reported at Bhubaneswar (Odisha) over the country.

- Minimum Temperature Departures as on 01-03-2021: Minimum temperatures are markedly above normal (5.1°C or more) at many places over Marathwada; appreciably above normal (3.1°C to 5.0°C) at most places over Bihar, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim and Nagaland, Manipur, Mizoram & Tripura; at many places over Jharkhand, Gangetic West Bengal, Gujarat region, Vidarbha, Odisha and Assam & Meghalaya; at a few places over West Rajasthan and Saurashtra & Kutch and at isolated places East Rajasthan; above normal (1.6°C to 3.0°C) at most places over East Uttar Pradesh; at many places over Madhya Pradesh, Madhya Maharashtra, Arunachal Pradesh and Coastal Karnataka. They are below normal (-1.6°C to -3.0°C) at most places over South Interior Karnataka; at a few places over Rayalseema and near normal over rest parts of the country. The lowest minimum temperature of 9.2°C reported at Hissar (Haryana) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 01 March (Day 1): Thunderstorm with lightning very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- 02 March (Day 2): Thunderstorm with lightning very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

- 03 March (Day 3): Thunderstorm with lightning very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura..
- 04 March (Day 4): Thunderstorm with lightning likely at isolated places over Assam & Meghalaya.
- 05 March (Day 5): Thunderstorm with lightning likely at isolated places over Arunachal Pradesh.
- The weather outlook for seven days i.e., 01 Mar to 09 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)

Tamil nadu

Weather condition:

With respect to daily rainfall, rainfall occurred at isolated places over Tamil Nadu on 19.2.2021, 20.2.2021, 22.2.2021, 23.2.2021, a few places over Tamil Nadu on 21.2.2021, dry weather prevailed over Tamil Nadu on 24.2.2021 during this week. Minimum temperature range of 20°C - 26°C prevailed over the state except Kodaikanal and Uthagamandalam (7°C - 10°C) during the period under report. Maximum temperature range of 27°C - 35°C prevailed over the state except Kodaikanal and Uthagamandalam (14°C - 21°C) during the period under report. –Maximum temperature: 33.6°C (normal 34.9°C), minimum temperature: 17.3°C (normal 19.5°C), rainfall: 0.0 mm (normal 4.3 mm). The maximum and minimum temperature were 1.3°C and 2.2°C below normal respectively and rainfall was 4.3 mm below normal across the week. General weather situation in Tamil Nadu:

Contingency measure:

- Irrigated crops: Water management -Light to moderate rainfall is expected till 20.02.2021 (8:30hrs). so based the arrival of rainfall irrigation to be scheduled.
Paddy: Tillering to panicle initiation stage- Prevailed weather is conducive for Leaf folder. So farmers are advised to spray Azadirachtin 0.03% 1000ml/ha. (or) Chlorontrinirole 18.5%SC @ 150g/ha. (or) Thiamethoxam 25% WG @ 100g/ha. Prevailed weather is conducive for Rice case worm. So farmers are advised to spray Quinalphos 25 EC 80 ml (or) Dislodge the cases by passing a rope and drain water. Collect the cases and destroy
- Chillies: Flowering to fruiting stage-Prevailing weather is conducive for Thrips damage. Spray Thiocloprid 21.7 % SC@6.0 ml/10 lit.

- Banana: All stages-Due to water stagnation, crop infected with Wilt. Soil drenching of Carbendazim 0.1 per cent solution around the pseudostem.
- 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 diseases-Bluetongue Livestock Disease - Very low risk and Peste des Petits Ruminants(PPR): Goats and sheep are most affected domestic animals.Very low risk.
- Clinical Signs:Fever, nasal and ocular discharge, respiratory distress, necrotic lesions in buccal mucosa, gum, dental pad, palate, tongue and diarrhea. Animals May die because of dehydration and pneumonia. Preventive Measures- Vaccination of susceptible animals of above 3 months old age. Restriction on animal movement, strict bio security measures and proper disposal of carcass.
- Next five day forecast -Thunderstorm Warning DAY 1(19.02.2021) & DAY 2(20.02.2021): Thunderstorm with lightning is likely to occur at isolated places over Tamil Nadu, Puducherry and Karaikal area. Extended range forecast -Rainfall forecast -Rainfall is predicted to be above normal during Week 1 (19.02.2021 to 25.02.2021): and below normal during Week 2 (26.02.2021 to 04.03.2021).

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

01-03-2021/(0800 to 0827) GMT
01-03-2021/(1330 to 1357) IST

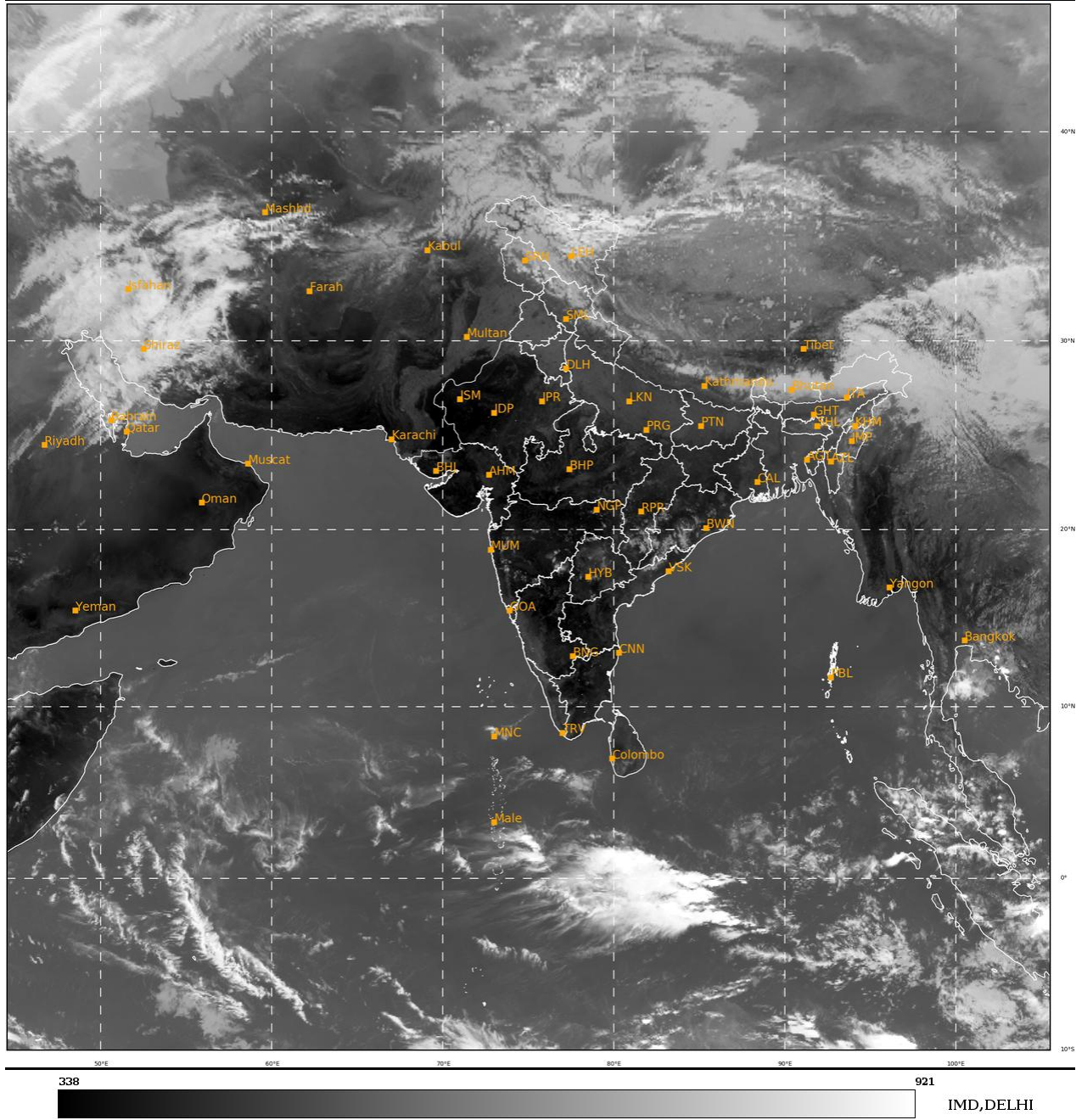


Figure: 1. Latest available satellite picture as on 01 March 2021 at 1357 Hrs (IST). (Source: IMD).

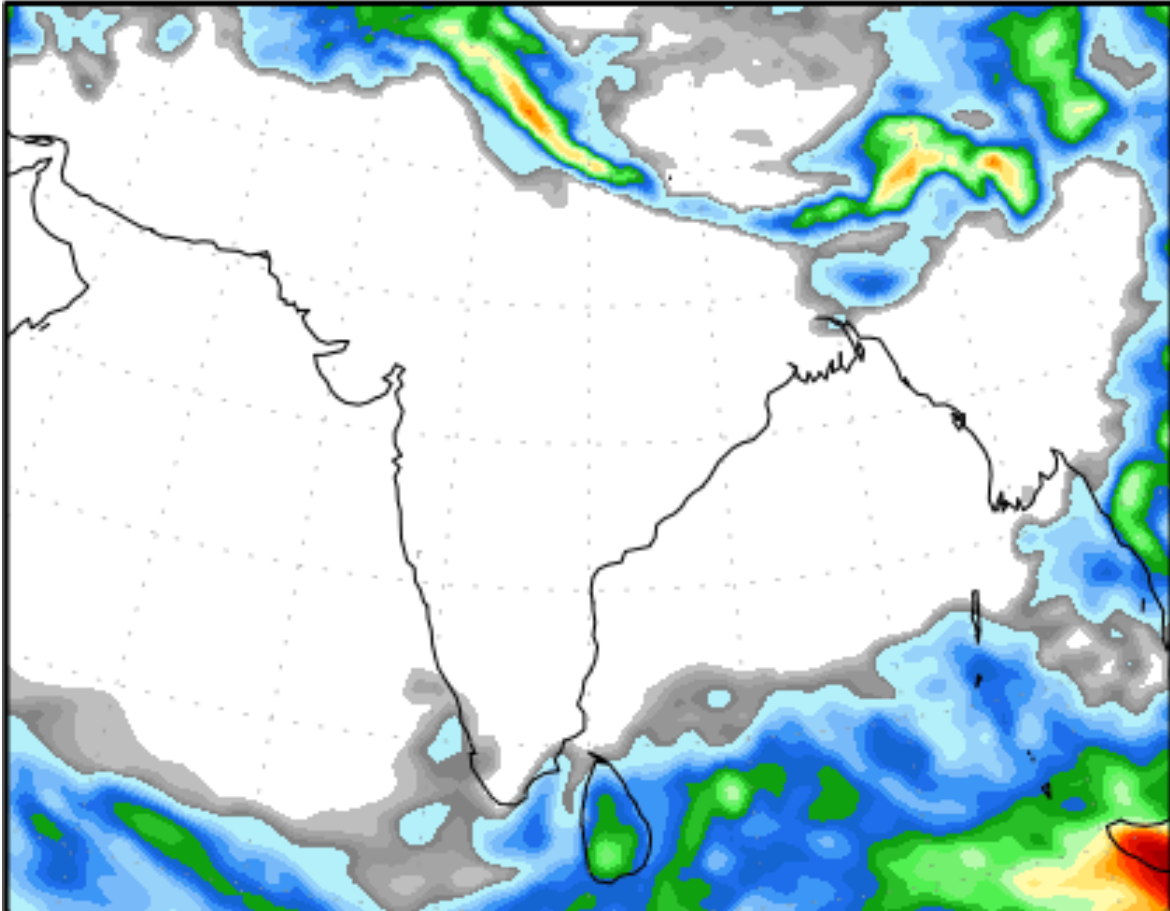


Figure:2. Precipitation forecast for 01 to 09 March 2021 (Source: NOAA NCEP).

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.