

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 19 February 2021

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Significant Weather Features (IMD)

- A trough in low level easterlies runs from north Kerala coast to south Gujarat coast at 0.9 km above mean sea level. Under its influence, light to moderate rainfall at isolated/scattered places with isolated thunderstorm, lightning & hail very likely over Madhya Maharashtra & Marathwada and with isolated thunderstorm & lightning over Konkan & Goa, North Interior Karnataka, Vidarbha and south Chhattisgarh during next 24 hours.
- Another trough in low level easterlies runs from Southwest Bay of Bengal & adjoining Sri Lanka coast to north Tamil Nadu coast at 0.9 km above mean sea level. Under its influence, light to moderate rainfall at isolated/scattered places with isolated thunderstorm & lightning very likely over South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe during next 2-3 days.
- Dense to Very Dense Fog in isolated/some pockets over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh and West Rajasthan in the morning hours of 20th & 21st February and reduction in intensity & spatial coverage thereafter.
- A fresh Western Disturbance is likely to affect Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad from 20th February. Under its influence, light to moderate isolated to scattered rainfall/snowfall with isolated thunderstorm & lightning very likely over the region during 20th-21st February.
- Another Western Disturbance, in quick succession, is likely to affect Western Himalayan Region from 22nd February, 2021. Under its influence, light to moderate scattered to fairly widespread rainfall/snowfall with isolated thunderstorm, lightning/hail very likely over these regions during 22nd-24th February.
- 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 Vidarbha, Chhattisgarh & Lakshadweep; at a few places over Madhya Maharashtra, Marathwada and South Interior Karnataka;

at isolated places over Arunachal Pradesh, Assam & Meghalaya, West Bengal & Sikkim, Bihar, Jharkhand, Odisha, Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Madhya Maharashtra, Gujarat Region, Telangana, Rayalseema, Tamil Nadu, Coastal & North Interior Karnataka, Kerala and Andaman & Nicobar Islands.

- Hailstorm recorded (from 0830 hours IST of yesterday to 0830 hours IST of today): Uttarakhand (Chakrata), Madhya Pradesh (Jhabua, Dhar, Khargone, Khandwa, Betul, Burhanpur and Chindwara), Maharashtra (Buldana, Bhandara, Gadchiroli, Amravati, Gondia, Satara, Mahabaleshwar, Nasik, Ratnagiri, Harnai and Pune) and Chhattisgarh (Kondagaon).
- Thunderstorm recorded (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Uttarakhand, East Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Vidarbha, Madhya Maharashtra, Interior Karnataka and Kerala.
- Fog reported at 0830 hours IST of today: Dense to Very Dense Fog in many pockets over Punjab; in some pockets over Haryana & Delhi and in isolated pockets over northwest Rajasthan.
- Maximum Temperature Departures as on 18-02-2021: Maximum temperatures were markedly above normal (5.1°C or more) at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, and Saurashtra & Kutch; appreciably above normal (3.1°C to 5.0°C) at most places over West Rajasthan, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; at many places over Himachal Pradesh; at a few places over Punjab, Haryana, Chandigarh & Delhi and West Uttar Pradesh; at isolated places over Gujarat region and Sub-Himalayan West Bengal & Sikkim; above normal (1.6°C to 3.0°C) at many places over East Uttar Pradesh; at a few places over East Rajasthan and Konkan & Goa; at isolated places over West Madhya Pradesh, Coastal Karnataka, Gangetic West Bengal and Coastal Odisha. They were markedly below normal (-5.1°C or less) at isolated places over Vidarbha; appreciably below normal (-3.1°C to -5.0°C) at a few places over Telangana; at isolated places over south Madhya Maharashtra; below normal (-1.6°C to -3.0°C) at most places over Chhattisgarh, Marathwada, interior Karnataka and Rayalaseema; at a few places over Tamilnadu, Puducherry & Karaikal; at isolated places over East Madhya Pradesh, Kerala & Mahe and Andaman & Nicobar Islands and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 35.3°C was reported at Vengurla (Konkan & Goa) over the country.

- Minimum Temperature Departures as on 19-02-2021: Minimum temperatures are markedly above normal (5.0°C or more) at a few places over Saurashtra & Kutch and Andaman & Nicobar Islands; appreciably above normal (3.1°C to 5.0°C) at a few places over West Rajasthan, Gujarat Region, Bihar and Jharkhand and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; above normal (1.6°C to 3.0°C) at many places over Sub-Himalayan West Bengal & Sikkim, Konkan & Goa, Madhya Maharashtra, Punjab and West Madhya Pradesh; at a few places over Gangetic West Bengal, Coastal Karnataka, Coastal Andhra Pradesh, Tamil Nadu, East Madhya Pradesh, East Uttar Pradesh, East Rajasthan and Odisha and at isolated places over Kerala, Arunachal Pradesh and Assam & Meghalaya. They are below normal (-1.6°C to -3.0°C) at many places over Vidarbha and Lakshadweep; at a few places over Telangana and at isolated places over Interior Karnataka and near normal over rest parts of the country. Today, the lowest minimum temperature of 7.0°C is reported at Narnaul (Haryana) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 19 February (Day 1): Dense to Very Dense Fog very likely in some pockets over Punjab and Haryana, Chandigarh & Delhi and in isolated pockets over West Uttar Pradesh and West Rajasthan and Dense Fog in isolated pockets over East Uttar Pradesh. Thunderstorm with lightning & hail very likely at isolated places over Madhya Maharashtra and Marathwada and with lightning at isolated places over East Madhya Pradesh, Jharkhand, Vidarbha, Chhattisgarh, Odisha, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalseema, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Lakshadweep and Interior Karnataka.
- 20 February (Day 2): Dense to Very Dense Fog very likely in isolated pockets over Punjab and Haryana, Chandigarh & Delhi and Dense Fog in isolated pockets over Uttar Pradesh and West Rajasthan. Thunderstorm with lightning very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Rayalseema, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and South Interior Karnataka.
- 21 February (Day 3): Thunderstorm with lightning & hail very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and with lightning at isolated places over Himachal Pradesh.
- 22 February (Day 4): Thunderstorm with lightning & hail likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh and Uttarakhand.

- 23 February (Day 5): 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., 19 to 27 February 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 Dry weather prevailed over rest Tamil Nadu from 12.02.2021 to 17.02.2021 during this week. – Minimum temperature range of 16°C - 24°C prevailed over the state except Kodaikanal and Uthagamandalam (5°C - 11°C) during the period under report. – Maximum temperature range of 29°C - 34°C prevailed over the state except Kodaikanal and Uthagamandalam (19°C - 23°C) during the period under report. – Maximum temperature: 33.0°C (normal 34.2°C), minimum temperature: 14.7°C (normal 19.3°C), rainfall: 0.0 mm (normal 2.2 mm). The maximum and minimum temperature were 1.2°C and 4.6°C below normal respectively and rainfall was 2.2 mm below normal across the week. General weather situation in Tamil Nadu:

Contingency measure:

- Irrigated crops- Water management -Irrigation may be provided.
- 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.
- Five day forecast: Thunderstorm Warning: Day 4(19.02.2021) & Day 5(20.02.2021): Thunderstorm with lightning is likely to occur at a few places over Tamil Nadu, Puducherry and Karaikal.

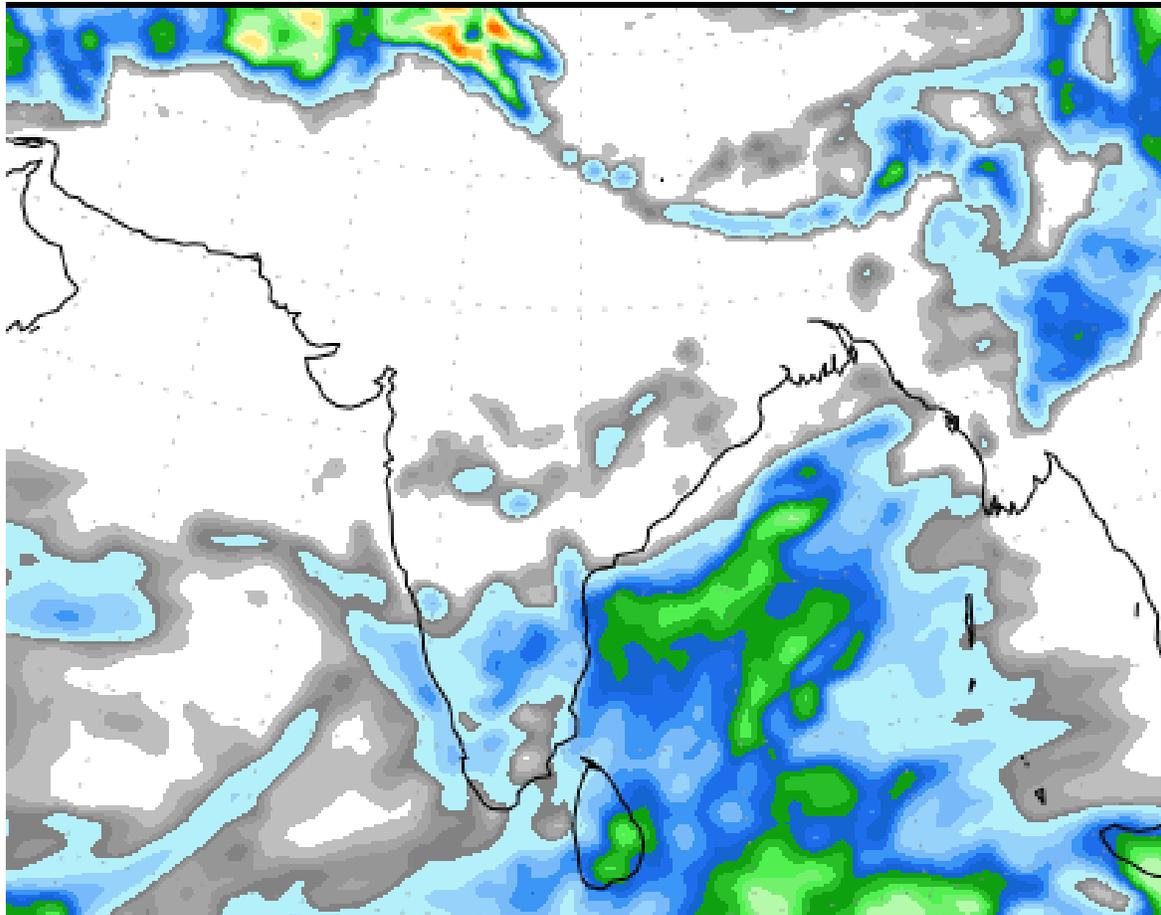


Figure:2. Precipitation forecast for 19 to 27 February 2021 (Source: NOAA NCEP).

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