

All India Coordinated Research Project on Agrometeorology

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Daily Crop Weather Information as on 25 October 2021.

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Significant Weather Features (IMD)

- The Southwest monsoon has withdrawn from the entire country today, the 25th October 2021.
- Simultaneously with the setting in of north-easterly winds in the lower tropospheric levels, the northeast monsoon rains has commenced over extreme south peninsular India today, the 25th October 2021.
- Under its influence, isolated very heavy rainfall also likely over Tamilnadu, Puducherry & Karaikal during 25th-29th over Kerala & Mahe during 25th-27th; over South Interior Karnataka on 25th & 26th; over Coastal Andhra Pradesh and Rayalaseema on 28th & 29th October, 2021.
- Light to moderate fairly widespread to widespread rainfall with thunderstorm & lightning very likely over Kerala & Mahe, Tamilnadu, Puducherry & Karaikal and South Interior Karnataka during next 5 days.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rainfall/Thundershowers observed (from 0830 hrs IST of yesterday to 0830 hrs IST of today): at most places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, South Interior Karnataka and Andaman & Nicobar Islands; at many places over Haryana, Chandigarh & Delhi and Tamilnadu, Puducherry & Karaikal; at a few places over Punjab, Rayalaseema, Coastal Karnataka, Lakshadweep and Kerala & Mahe and at isolated places over Uttarakhand, West Uttar Pradesh, East Rajasthan, West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur Mizoram & Tripura, Saurashtra & Kutch, Goa, North Interior Karnataka and Coastal Andhra Pradesh & Yanam.
- Significant amount of Rainfall (from 0830 hrs IST of yesterday to 0830 hrs IST of today) (3 cm or more): Tamilnadu, Puducherry & Karaikal: Madurai-11, Pudukkottai-10, Tiruppur, Toothukudi- 8 each, Kodaikanal-4 each; Interior Karnataka: Kodagu-8, Shivamoga, Mysuru, Dharwad, Mandya-7, Hassan-3; Kerala: Palakkad-6; Konkan & Goa: Goa-3; Himachal Pradesh: Rajgarh-8,

Solan-7; Haryana, Chandigarh & Delhi: Yamunanagar, Chandigarh, Delhi Ridge, Safdarjung-3 each; Punjab: Ludhiana-10, Patiala-9; West Uttar Pradesh: Aligarh-5.

Heavy rainfall observed (from 0830 hrs IST of yesterday to 0830 hrs IST of today): Heavy rainfall at isolated places over Himachal Pradesh, Punjab, Haryana, Interior Karnataka and Tamilnadu, Puduchery & Karaikal.

- Hailstorm observed at isolated places over Haryana, Chandigarh & Delhi(Chandigarh, northwest Delhi, Sonapat), Uttarakhand (Chakrata) and West Uttar Pradesh (Noida).
- Thunderstorm observed (from 0830 hrs IST of yesterday to 0830 hrs IST of today): at isolated places over Himachal Pradesh, Uttarakhand, West Uttar Pradesh, Haryana, Chandigarh & Delhi, Punjab, Coastal Andhra Pradesh & Yanam, Rayalaseema, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal.
- Maximum Temperature Departures as on 24-10-2021: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over Tamilnadu, Puducherry & Karaikal and Assam & Meghalaya; above normal (1.6°C to 3.0°C) at a few places over Odisha and Jharkhand and at isolated places over East Madhya Pradesh, Coastal Andhra Pradesh & Yanam and Sub-Himalayan West Bengal & Sikkim. They were markedly below normal (-5.1°C or less) at most places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh and Punjab; at a few places over West Rajasthan; appreciably below normal (-3.1°C to -5.0°C) at isolated places over East Rajasthan, Gujarat State, West Madhya Pradesh and Andaman & Nicobar Islands; below normal (-1.6°C to -3.0°C) at a few places over Konkan & Goa and Coastal Karnataka and at isolated places over East Uttar Pradesh and Bihar and near normal at rest parts of the country. Yesterday, the maximum temperature 35.4°C was reported at Tondi (Tamilnadu, Puducherry & Karaikal).
- Minimum Temperature Departures as on 25-10-2021: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at isolated places over West Rajasthan, Madhya Pradesh and East Uttar Pradesh; above normal (1.6°C to 3.0°C) at many places over Gujarat Region; at a few places over East Rajasthan, Bihar, Gangetic West Bengal and Andaman & Nicobar Islands and at isolated places over Saurashtra & Kutch, South Interior Karnataka, Rayalaseema, Coastal Andhra Pradesh & Yanam, Tamilnadu, Puducherry & Karaikal and Assam & Meghalaya. They are appreciably below normal (-3.1°C to -5.0°C) at isolated places over Jammu, Kashmir, Ladakh, Gilgit- Baltistan & Muzaffarabad; below normal (-1.6°C to -3.0°C) at a few places over Himachal Pradesh, Madhya Maharashtra and Telangana and at isolated places over Vidarbha and near normal over rest

parts of the country. Today, the lowest minimum temperature of 12.9°C reported at Amritsar (Punjab) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 25 October (Day 1): Heavy rainfall very likely at isolated places over Tamil Nadu, Puducherry & Karaikal, South Interior Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning very likely at isolated places over Tamil Nadu, Puducherry & Karaikal, South Interior Karnataka and Kerala & Mahe.
- 26 October (Day 2): Heavy rainfall very likely at isolated places over Tamil Nadu, Puducherry & Karaikal, South Interior Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning very likely at isolated places over Tamil Nadu, Puducherry & Karaikal, South Interior Karnataka and Kerala & Mahe.
- 27 October (Day 3): Heavy rainfall very likely at isolated places over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm accompanied with lightning very likely at isolated places over Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal, South Interior Karnataka and Kerala & Mahe.
- 28 October (Day 4): Heavy rainfall likely at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema and Tamil Nadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning likely at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, South Interior Karnataka and Kerala & Mahe.
- 29 October (Day 5): Heavy rainfall likely at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema and Tamil Nadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning likely at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, South Interior Karnataka and Kerala & Mahe.
- The weather outlook for seven days i.e., 25 Oct to 31 Oct 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)

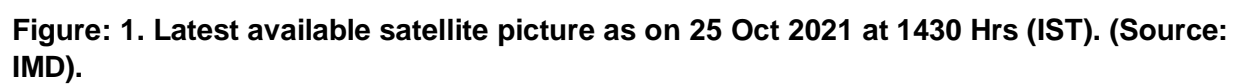
Kerala

Weather condition:

In Vellanikkara, the maximum temperature ranges from 28.1 to 32.7°C, minimum temperature ranges from 22.4 to 24.3°C. Morning relative humidity ranges from 090% to 099 % and afternoon relative humidity ranges from 067% to 099 %. Wind speed ranges from 0.7 to 2.1 km/h. Evaporation ranges from 1.0 to 2.6 mm. Sunshine hours range from 0.0 to 8.7 hours.

Contingency measure:

- Rice(Mundakan): Seedling stage, There is a chance of Leaf folder attack in Mundakan Paddy. It can be controlled by using trichogramma cards (2CC per one acre). Cut the cards in to small pieces and fix in different regions of the field. If the attack is severe, spray quinalphos @ 2ml per one liter of water. Rice case worm occurs during rainy season, there is a chance of rice case worm in paddy field. To control this 25 kg sawdust or rice husk ash mixed with one litre kerosene (for 1 acre) can be spread after draining the field.
- Coconut(Bud rot): To control the Bud rot in coconut, chisel out the affected area and apply 10% Bordeaux paste. Care should be taken to protect the affected area from heavy rain.
- Turmeric: Due to high relative humidity, there is a chance of Leaf Blotch (*Taphrina maculans*) diseases. Remove and destroying disease affected plants. As a prophylactic measure, spray 2ml hexaconazole (Contaf) or 1 ml Propiconazole (Tilt) or 2 gram SAAF or 2.5 g copper oxychloride (Blitox or Blue copper) or 2 g copper hydroxide dissolved in one litre of water. Otherwise 1% Bordeaux mixture can be sprayed. Spraying can be continued at fortnightly intervals depending upon the intensity of the disease.
- Cucurbitaceous Vegetables: Due to high relative humidity, there is a chance of downy mildew attack in cucurbitaceous vegetables. Spray 2.5 gm Mancozeb per one litre of water under the leaves.
- Animal Husbandry: Sundry the cattle feed frequently to avoid fungal growth. Take precautions to avoid ecto parasitic infestation.



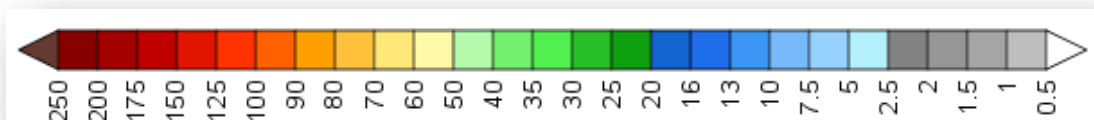
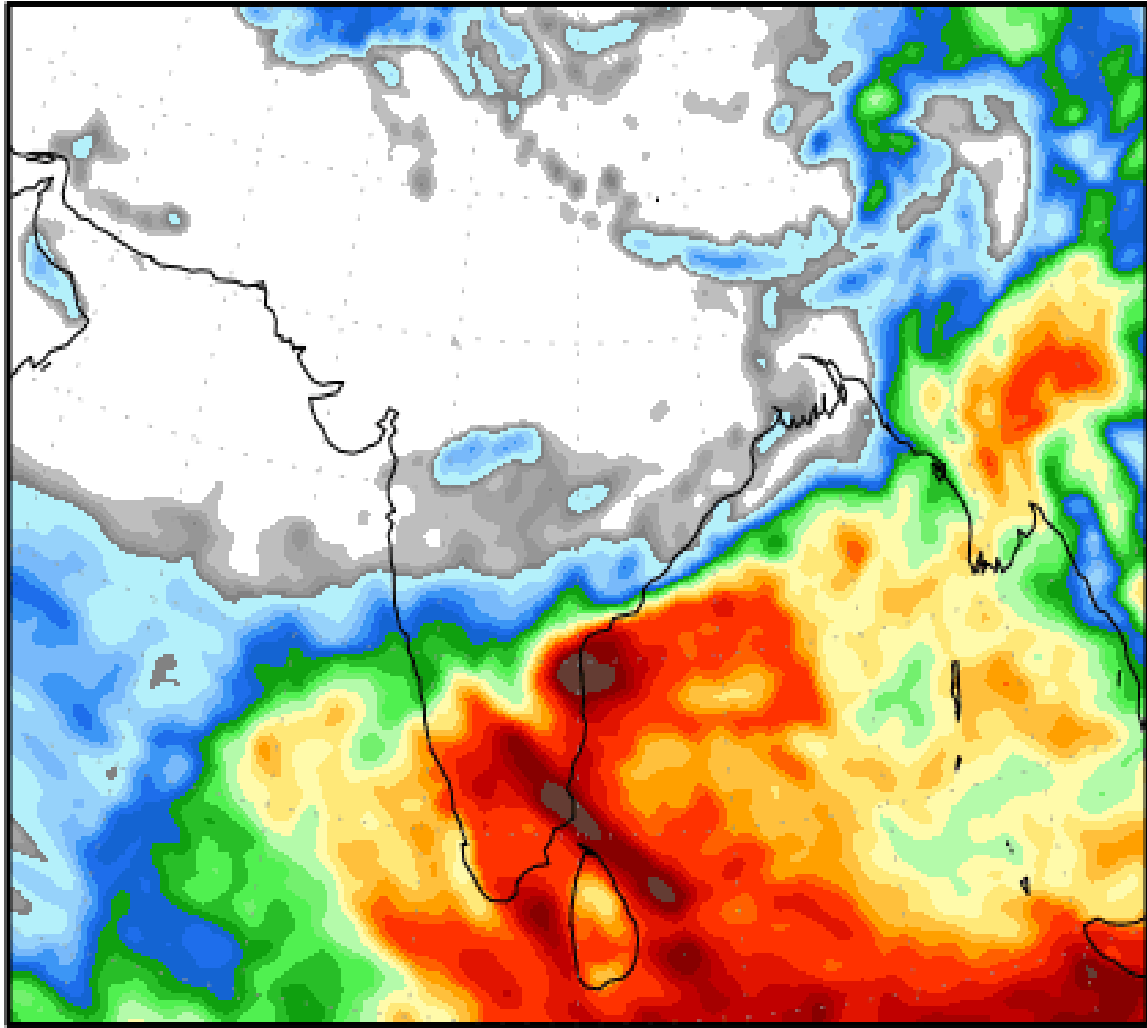


Figure:2. Precipitation forecast for 25 Oct to 02 nov 2021 (Source: NOAA NCEP).

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