

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 23 November 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A cyclonic circulation lies over central parts of South Bay of Bengal and extends upto mid-tropospheric levels. Under its influence, a Low Pressure Area is likely to form over southwest Bay of Bengal during next 24 hours. It is likely to move west-northwestwards towards Sri Lanka & south Tamilnadu coast.
- A trough runs from the cyclonic circulation over central parts of South Bay of Bengal to south Tamilnadu across Southwest Bay of Bengal in lower levels.
- Under the influence of above systems:
 - i) Light to moderate fairly widespread rainfall over Coastal Andhra Pradesh & Yanam, South Interior Karnataka, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal during next 5 days.
 - ii) Isolated heavy rainfall very likely over Tamilnadu, Puducherry & Karaikal and Kerala & Mahe during next 5 days and over South Coastal Andhra Pradesh & Yanam and Rayalaseema during 25th-27th November, 2021.
 - iii) Isolated very heavy rainfall also very likely over Tamilnadu, Puducherry & Karaikal during 25th-27th November and over South Coastal Andhra Pradesh & Yanam and Rayalaseema on 27th November, 2021.
- Gradual fall in minimum temperatures by 2-4°C very likely over most parts of East, West & Central India and gradual rise by 2-3°C over most parts of Northwest India during next 3-4 days.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rainfall/Thundershowers observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at most places over Arunachal Pradesh, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal; at many places over North Interior Karnataka; at a few places over Assam & Meghalaya, Chhattisgarh, Odisha, Andaman & Nicobar Islands and Coastal Andhra Pradesh & Yanam and at isolated places over Sub-Himalayan West Bengal & Sikkim, Madhya Pradesh,

Vidarbha, Gujarat Region, Madhya Maharashtra, Telangana, South Interior Karnataka, Coastal Karnataka, Rayalaseema and Lakshadweep.

- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal.
- Fog observed (at 0830 hours IST today): Shallow to moderate fog in isolated pockets over Sub-Himalayan West Bengal & Sikkim and East Madhya Pradesh, Jammu, Kashmir, Gilgit-Baltistan Muzaffarabad, East Rajasthan and Chhattisgarh.
- Visibility recorded (at 0830 hrs IST today) (500 metre or less): Gangtok and Malanjkhanda-200 each; Darjeeling, Srinagar, Chittorgarh, Kota and Mana-AP-Raipur-500 each.
- Minimum Temperature Departures (as on 23-11-2021): Minimum temperatures are markedly above normal (5.1°C or more) at most places over Vidarbha and Marathwada; at many places over Odisha, Telangana and Madhya Maharashtra; at a few places over Saurashtra & Kutch and West Madhya Pradesh; appreciably above normal (3.1°C to 5.0°C) at most places over Jharkhand, Chhattisgarh, Gujarat Region, North Interior Karnataka, Rayalaseema and Coastal Andhra Pradesh & Yanam; at many places over Gangetic West Bengal and East Madhya Pradesh; at a few places over Assam & Meghalaya and South Interior Karnataka; at isolated places over Rajasthan and above normal (1.6°C to 3.0°C) at many places over Tamil Nadu, Puducherry & Karaikal, Coastal Karnataka, Lakshadweep, Konkan & Goa and north interior Karnataka and Andaman & Nicobar Islands; at a few places over Sub-Himalayan West Bengal & Sikkim, Bihar and Andaman & Nicobar Islands. They are below normal (-1.6°C to -3.0°C) at Jammu, Kashmir, Gilgit-Baltistan Muzaffarabad and near normal over rest parts of the country. Today, the Lowest minimum temperature of 5.6°C is reported at Sikar (East Rajasthan) over the plains of the country.
- Maximum Temperature Departures (as on 23-11-2021): Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Jharkhand; at isolated places over Odisha and Tamil Nadu, Puducherry & Karaikal; above normal (1.6°C to 3.0°C) at most places over Gangetic West Bengal and Telangana; at many places over Himachal Pradesh, Punjab, Uttarakhand, Vidarbha, Coastal Andhra Pradesh & Yanam and Saurashtra & Kutch; at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, East Uttar Pradesh, Bihar and Madhya Pradesh, Marathwada; at isolated places over North Interior Karnataka. They were appreciably below normal (-3.1°C to -5.0°C) at many places over Coastal Karnataka and below normal (-1.6°C to -3.0°C) at many places over

Arunachal Pradesh, at a few places over Assam & Meghalaya and Sub-Himalaya West Bengal & Sikkim; at isolated places over Konkan & Goa and near normal at rest parts of the country. Yesterday, the highest maximum temperature 34.9°C was reported at Rajkot (Saurashtra & Kutch).

Weather Warning during the next 5 days (IMD)

- 23 November (Day 1): 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 Konkan & Goa, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Dense fog very likely in isolated pockets over west Assam.
- 24 November (Day 2): Heavy rainfall very likely at isolated places over Tamil Nadu, Puducherry & Karaikal and Andaman & Nicobar Islands. Thunderstorm accompanied with lightning very likely at isolated places over South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Dense fog very likely in isolated pockets over Assam & Meghalaya and Tripura.
- 25 November (Day 3): Heavy to very heavy rainfall very likely at isolated places over Tamil Nadu, Puducherry & Karaikal and Heavy rainfall at isolated places over , Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam, Rayalaseema and Kerala & Mahe. Thunderstorm accompanied with lightning very likely at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Dense fog very likely in isolated pockets over Assam & Meghalaya and Tripura.
- 26 November (Day 4): Heavy to very heavy rainfall likely at isolated places over Tamil Nadu, Puducherry & Karaikal and Heavy rainfall at isolated places over south Coastal Andhra Pradesh, Rayalaseema and Kerala & Mahe. Thunderstorm accompanied with lightning likely at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Squally wind (speed reaching 40-50 kmph gusting to 60 kmph) likely over Southwest & adjoining Westcentral Bay of Bengal, along & off Tamilnadu-south Andhra Pradesh coasts and Gulf of Mannar. Fishermen are advised not venture into these areas.
- 27 November (Day 5): Heavy to very heavy rainfall likely at isolated places over south Coastal Andhra Pradesh, Rayalaseema and Tamil Nadu, Puducherry & Karaikal and Heavy rainfall at isolated places over Kerala & Mahe. Thunderstorm accompanied with lightning likely at isolated places over Coastal Andhra

Pradesh, Rayalaseema, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Squally wind (speed reaching 40-50 kmph gusting to 60 kmph) likely over Southwest & adjoining Westcentral Bay of Bengal, along & off Tamil Nadu-south Andhra Pradesh coasts and Gulf of Mannar. Fishermen are advised not venture into these areas.

- The weather outlook for seven days i.e., 23 Nov to 01 Dec 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)

Himachal Pradesh

Weather condition:

The maximum temperature ranged between 19.5 to 22.5 °C which was above normal by 0.6 to 1.7 °C and minimum temperature ranged between 5.6 to 8.5 °C which was below normal by 1.6 to 4.3 °C. No rainfall was received during the week against the normal of 4.3 mm. The relative humidity varied between 39-89 % and sunshine hours between 9.0-9.5 hrs/day with variable sky conditions (Octa 0-2). The evaporation rate varied 1.8-2.6 mm per day.

Contingency measure:

- Rabi Crops: Wheat: Advised wheat sowing in lower regions. The Seed should be cleaned and graded thoroughly before sowing. Shriveled & small wheat grains and weed seeds should be removed. In termites infected soils, treat the seed with 4 ml Chlorpyriphos 20 EC/kg of seed and dry it and then treat it with Bavistin or Vitavax 2.5g/kg of the seed. Late sowing of wheat crop should be completed. Against fungal disease, seed treatment with 2.5 g Bavistin or Savin / Kg of seed should be done before sowing. In the early planted wheat crop where weeds are 2-3 leaves stage, spray isoproturon @ 70 g or Vesta @ 16 g per 30 litres of water in one kanal for the control of weeds.
- Storage of Grains: Grains should be properly dried to right moisture level before storing. Godowns should be properly cleaned by removing all the grains and other storage matter of previous crop.
- Mustard: Thinning and weeding is recommended in timely sown mustard crop. Keeping in view of relative humidity farmers are advised for monitoring of mustard crop against attack of white rust. If infection is high than spraying of Dithane-M-45 @ 2 gram/ litre of water of water is advised. Keeping in view of

weather, farmers are advised for monitoring of mustard crop against aphid attack.

- Fodder Crops: Complete sowing of berseem, lucerne and oats for fodder of rabi season is advised. Mix seed of gobhi sarson with oats to have nutritious production of fodder during first-cut is advised.
- Vegetable Crops: Add mulch material in space between two rows of vegetables crops for conservation of soil moisture and maintaining the soil temperature.
- Onion & Garlic: Sowing of garlic and onion is advised.
- Radish & Turnip: Thinning of turnip, carrot and radish is advised. Maintain a plant to plant distance of 7-10 cm.
- Cabbage & Cauliflower: Advised to complete transplanting of seedlings of cabbage, cauliflower, knoll khol and broccoli are advised. Mix well rotten FYM prior to transplanting.
- Poly House Agriculture: Open the side and top for temperature control. Advised tomato, cucumber and capsicum sowing and transplanting. For control of powdery mildew, aphids and spodopetra spray recommended chemicals. Keep yellow sticky trap in polyhouse and after transplanting drench plant with amidochloropid. Leaf spot/blight is expected in shimla mirch and tomato for control spray tilt 1ml per liters of water.
- Tea: Training, skiffing and cleaning work can be completed in the tea orchards. Do lopping of the tree in the tea orchards to have more sunlight. The skiffed material may be used to prepare compost so that it could be applied in next season.
- Livestock: Ecto-parasite attack is expected in this weather for control spray Butox @ 2 ml per litre in cowshed Give mixture of hay & green fodder. The weather is suitable for the attack of pink eye disease in newly born calves, for control prepare the solution of 1% boric acid in boiled water and wash eyes at regular interval of three hours. Give mixture of hay & green fodder. Advised not to allow animals to eat lantana these days. Dry bedding may be provided to save the animals from cold. Young calves must be kept in the sheds during nights.
- Poultry: Make sure to deworm your older flocks every month against round-worms. Ensure proper ventilation in poultry houses. Replace the poultry houses with fresh litter and keep the houses clean and ensure drinking water to the birds. For precautionary measures spray formaline 40% @ 1litre in 9 litres of water in outside or surrounding of farm. Provide vitamin A and vitamin B-complex with water. Ensure proper space for egg laying of birds and provide 14 to 16 hours light including day light. Normal feeding schedule should be

continued and add mineral in the diet if stress is seen.

- Mushrooms: Maintain room temperature 18-22oC and relative humidity around 85% for successful cultivation.
- Horticulture: Keep the basins of the plants free from weeds. The new growth appearing below bud union may be cut. If a termite outbreak appears on the trees, spray Chlorpyriphos 20 EC @ 3ml/l. Monitor foliar pest on plants of Citrus species. Spray Chlorantraniliprole 18.5 SC @ 0.4 ml/l or lambdacyhalothrin 4.90 CS @0.8 ml/l for pomegranate butterfly. Advised recommended spray of chemicals for control of citrus canker. In peach gum is coming out from tree trunk, for control bordeaux paint may be applied in the affected area.

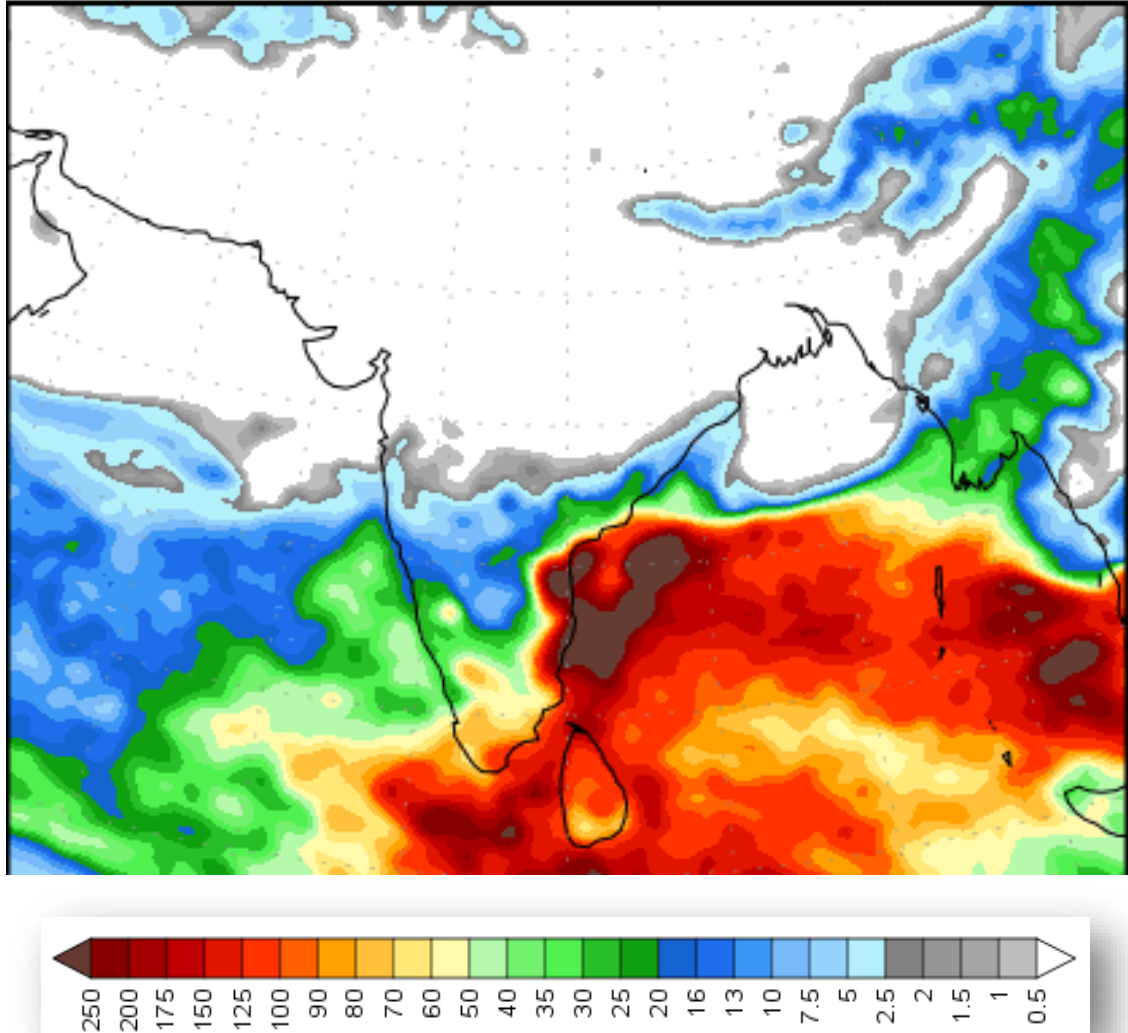


Figure:2. Precipitation forecast for 23 Nov to 01 Dec 2021 (Source: NOAA NCEP).

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