

All India Coordinated Research Project on Agrometeorology

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Daily Crop Weather Information as on 08 November 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A) Extremely heavy rainfall spells over Tamil Nadu during 10th-11th November:
- The cyclonic circulation over southeast Bay of Bengal & adjoining south Andaman Sea extending upto middle tropospheric levels. Under its influence, a low pressure area is very likely to form over southeast Bay of Bengal & neighbourhood during next 24 hours. It is likely to move west-northwestwards, concentrate into a Depression and reach near north Tamilnadu coast by the early morning of 11th November, 2021. Under its influence:
 - i) Widespread light to moderate rainfall is very likely over Kerala, south Coastal Andhra Pradesh and Tamil Nadu during next 5 days.
 - ii) Isolated heavy to very heavy rainfall is likely over Tamil Nadu on 08th & 09th and heavy to very heavy rain at few places with Isolated extremely heavy falls are very likely on 10th & 11th November, 2021. Heavy to very heavy rain with extremely heavy falls at isolated places are also likely over south Coastal Andhra Pradesh during same period.
- Squally weather (speed reaching 40-50 kmph gusting to 60 kmph) over Southwest & adjoining Westcentral Bay of Bengal and along & off south Andhra Pradesh-Tamil Nadu coasts and Gulf of Mannar during next 4 days.
- Squally weather (speed reaching 40-50 kmph gusting to 60 kmph) over Southeast Bay of Bengal during next 2 days Fishermen are advised not to venture into these areas.
- B) Depression over Eastcentral Arabian Sea:
- The Depression over eastcentral Arabian Sea moved west-northwestwards with a speed of 08 kmph during past 6 hours and lay centred at 0830 hrs IST of today, the 8th November, 2021 over Eastcentral Arabian Sea near latitude 14.7°N and longitude 66.4°E, about 840 km west-southwest of Mumbai (Maharashtra) & 800 km west-southwest of Panjim (Goa). It is likely to move nearly westwards and weaken into a well marked Low Pressure area by tomorrow morning. Thereafter it is likely to move west-southwestwards.

- Fisherman warning: Squally weather (speed reaching 45-55 kmph gusting to 65 kmph) very likely over Eastcentral and adjoining Westcentral Arabian sea and speed reaching 40-50 kmph gusting to 60 kmph during next 24 hours. Fishermen are advised not to venture into these areas.
- 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 hours IST of today): at most places Tamilnadu, Puducherry & Karaikal; at many places over Andaman & Nicobar Islands; at a few places over Rayalaseema Kerala & Mahe and Lakshadweep and at isolated places over South Interior Karnataka and Coastal Andhra Pradesh & Yanam.
- Rainfall recorded (from 0830 hrs IST of yesterday to 0830 hours IST of today): Heavy to very heavy rainfall at isolated places over Tamil Nadu, Puducherry & Karaikal.
- Thunderstorm observed (from 0830 hrs IST of yesterday to 0830 hours IST of today): at isolated places over Coastal Andhra Pradesh & Yanam, Coastal Karnataka and Tamilnadu, Puducherry & Karaikal.
- Maximum Temperature Departures as on 07-11-2021: Maximum temperatures were above normal (1.6°C to 3.0°C) at isolated places over Assam & Meghalaya and Andaman & Nicobar Islands. They were appreciably below normal (-3.1°C to -5.0°C) at a few places over Jammu, Kashmir, Ladakh, GilgitBaltistan & Muzaffarabad and Rayalaseema and at isolated places over East Madhya Pradesh and East Uttar Pradesh; below normal (-1.6°C to -3.0°C) at many places over Haryana, Chandigarh & Delhi, Bihar and Coastal Andhra Pradesh & Yanam; at a few places over Gangetic West Bengal & Sikkim, West Madhya Pradesh, Coastal Karnataka and Tamilnadu, Puducherry & Karaikal and at isolated places over Himachal Pradesh and Telangana and near normal at rest parts of the country. Yesterday, the maximum temperature 35.1°C was reported at Deesa (Gujarat Region).
- Minimum Temperature Departures as on 08-11-2021: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at isolated places over Saurashtra & Kutch; above normal (1.6°C to 3.0°C) at many places over South Interior Karnataka; at a few places over Rayalaseema, Lakshadweep and Konkan & Goa; at isolated places over Himachal Pradesh, Madhya Maharashtra, Tamil Nadu, Puducherry & Karaikal and Andaman & Nicobar islands. They are appreciably below normal (-3.1°C to -5.0°C) at a few places over Gangetic West Bengal,

Odisha and Rayalaseema; below normal (-1.6°C to -3.0°C) at most places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; at many places Coastal Andhra Pradesh and Telangana; at a few places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, East Rajasthan, Bihar and Madhya Pradesh and at isolated places over West Uttar Pradesh and near normal over rest parts of the country. Today, the lowest minimum temperature of 8.8°C is reported at Pachmarhi (West Madhya Pradesh) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 08 November (Day 1): Heavy to very heavy rainfall very likely at isolated places over Tamil Nadu, Puducherry & Karaikal and heavy rainfall at isolated places over south Coastal Andhra Pradesh, South Interior Karnataka, Rayalaseema and Kerala & Mahe. Thunderstorm accompanied with lightning very likely at isolated places over Rayalaseema, South Interior Karnataka, Tamil Nadu and Kerala & Mahe. Squally weather (speed reaching 45-55 kmph gusting to 65 kmph) very likely over Eastcentral and adjoining Westcentral Arabian sea and speed reaching 40-50 kmph gusting to 60 kmph over Southeast, Southwest & adjoining Westcentral Bay of Bengal and along & off south Andhra Pradesh-Tamil Nadu coasts and Gulf of Mannar. Fishermen are advised not to venture into these areas.
- 09 November (Day 2): Heavy to very heavy rainfall very 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 very likely at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal & South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Squally weather (speed reaching 40-50 kmph gusting to 60 kmph) very likely over Southeast & adjoining central parts of south Bay of Bengal, Southwest & adjoining Westcentral Bay of Bengal and along & off south Andhra Pradesh-Tamil Nadu coasts and Gulf of Mannar. Fishermen are advised not to venture into these areas.
- 10 November (Day 3): Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places very likely over Tamil Nadu, Puducherry & Karaikal; Heavy to very heavy rainfall with extremely heavy falls at isolated places over south Coastal Andhra Pradesh & Yanam and heavy to very heavy rainfall at isolated places over Rayalaseema and heavy rainfall at isolated places over Kerala & Mahe. Thunderstorm accompanied with lightning very likely at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal & South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe

and Lakshadweep. Squally weather (speed reaching 45-55 kmph gusting to 65 kmph) very likely over Southwest & adjoining Westcentral Bay of Bengal and along & off south Andhra Pradesh-Tamil Nadu coasts and Gulf of Mannar. Fishermen are advised not to venture into these areas.

- 11 November (Day 4): Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places likely over Tamil Nadu, Puducherry & Karaikal; Heavy to very heavy rainfall with extremely heavy falls at isolated places over south Coastal Andhra Pradesh & Yanam and heavy to very heavy rainfall at isolated places over Rayalaseema and Kerala & Mahe and heavy rainfall at isolated places over South Interior Karnataka. Thunderstorm accompanied with lightning likely at isolated places over Coastal & South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep. Squally weather (speed reaching 45-55 kmph gusting to 65 kmph) likely over Southwest & adjoining Westcentral Bay of Bengal and along & off south Andhra Pradesh-Tamil Nadu coasts and Gulf of Mannar. Fishermen are advised not to venture into these areas.
- 12 November (Day 5): Heavy rainfall at isolated places likely over Tamil Nadu, Puducherry & Karaikal, South Interior Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning likely at isolated places over South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.
- The weather outlook for seven days i.e., 08 Nov to 16 Nov 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 and minimum temperature ranged between 21.5 to 23.5 °C and 9.0 to 10.0 °C which was below normal by 0.4 to 1.8 °C and 2.1 to 2.9 °C, respectively. No rainfall was received during the week against the normal of 3.1 mm. The relative humidity varied between 37-90 % and sunshine hours between 1.5-10.0 hrs/day with variable sky conditions (Octa 0-8). The evaporation rate varied 2.2-4.0 mm per day.

Contingency measure:

- Rabi Crops: Before rabi crop sowing after cleaning fields add decomposed FYM

or compost before sowing of crops as it improves the physical and biological Advisory for coming 5 Days: There is very light rainfall expected in the region.

- Fodder Crops: The hay making process should be started and grasses may cut before flowering and dry during sunny days. Sowing of fodder crops such as oats and Lucerne is advised. Mixing of gobhi sarson seeds with oats and barseem is advised.
- Vegetable Crops: Ensure proper drainage in vegetable crops. Use Light Trap to destroy harmful pests. For this, in a plastic tub or a large pot, mix water and a little kerosene or few ml insecticide and burn a bulb and keep it in the middle of the field at night. By attracting insects from light, they will fall on the same solution and die.
- Cauliflower: Advised to sow nursery of mid season cauliflower and cabbage in poly house in mid hills and lower region and advised transplanting of ageti cauliflower and cabbage nursery in fields.
- Tomato, Chilli, Capsicum And Brinjal: Weeding and hoeing in all crops and vegetables should be done for optimum growth. Shoot and fruit borer in brinjal and fruit borer in tomato crop is expected. Infested fruits and shoots should be collected and buried inside the soil. Installation of bird perches in tomato is advised to control fruit borer insect. Installation of pheromone trap @ 2-3 traps per acre of crop field is advised for monitoring the fruit borer. If pest population is high, spraying of Chlorantraniliprole 18.5SC @ 0.4 ml/l is advised. Constant monitoring of the chilli crop against attack of mites and jassid is advised.
- Radish, Turnip & Peas: Sowing of turnip and radish in lower rainfed areas are advised. In mid hill region nursery sowing of Chinese cabbage and direct sowing of radish, carrot, broccoli, lettuce is advised. Field preparation should be started for early pea and farmers are advised to do arrangement for quality seeds.
- Pea: Field preparation should be started for early pea and farmers are advised to do arrangement for quality seeds. Treat the seed with Bavistin 50 WP (2.5 g/kg of seed) before sowing.
- Poly House Agriculture: Open the side and top for temperature control. During rains top and side bent should be closed. Incidence of white fly and mites expected in polyhouse. For control of these insect pests in polyhouses, spray of Spiromesifen 22.9 SC @ 1ml/l is recommended. Vegetables harvesting one week after spraying is advised. Advised to sow nursery of mid season cauliflower and cabbage in poly house in mid hills and lower region and advised transplanting of ageti cauliflower and cabbage nursery in fields.
- Tea: Advised picking in tea at 8-10 days interval to maintain the quality and

productivity. Lopping of shade trees advised in tea orchards. Weather is conducive for attack of blister blight in shady and high humid areas, for precautionary measure spray calixin @ 0.2% or folicure 0.1% and if attack is severe then repeat spray at 15 days with alternate spray of blitox 0.3% at seven days interval.

- Livestock: Monitor the animals for FMD and advise protect calves against parasites, get them dewormed with piperazine liquid @ 4 ml/kg body weight, first at 10 days of age, then 15 days and then monthly upto three months of age and then quarterly upto one year of age. Vaccination. 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. Advise not to allow animals to eat lantana these days.
- Poultry: Make sure to deworm your older flocks every month against roundworms. 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% @ 1 litre 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 18-22°C and relative humidity around 85% for successful cultivation.
- Horticulture: Keep the basins of the plants free from weeds and well drained. The new growth appearing below bud union may be cut. If a termite outbreak appears on the trees, spray Chlorpyrifos 20 EC @ 3ml/l. Monitor foliar pest on plants of Citrus species. Spray Chlorantraniliprole 18.5SC @ 0.4 ml/l or lambda cyhalothrin 4.90CS @ 0.8 ml/l for pomegranate butterfly. Advise recommended spray of chemicals for control of ci



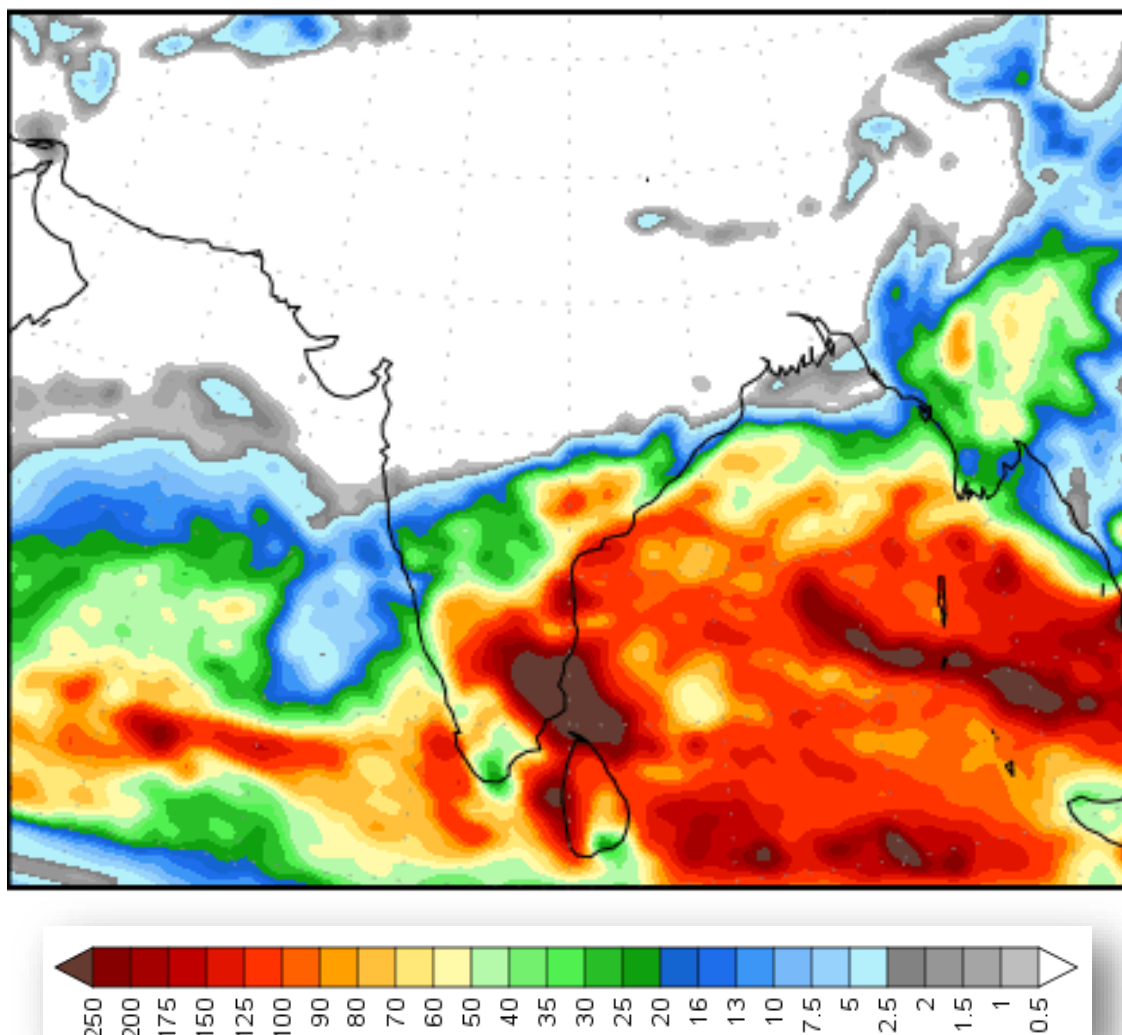


Figure:2. Precipitation forecast for 08 Nov to 16 Nov 2021 (Source: NOAA NCEP).

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