

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 24 November 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A cyclonic circulation lies over Southwest & adjoining Southeast 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 Southwest & adjoining Southeast Bay of Bengal to south Tamilnadu in lower tropospheric levels. Forecast and warning:
- Light to moderate scattered/fairly widespread rainfall very likely over Coastal Andhra Pradesh & Yanam, Rayalaseema, South Interior Karnataka, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal during next 5 days.
- Isolated heavy to very heavy rainfall very likely over Tamilnadu, Puducherry & Karaikal during 24th to 28th November. Isolated heavy rainfall also very likely over south Coastal Andhra Pradesh & Yanam 26th and isolated heavy to very heavy rainfall very likely over south Coastal Andhra Pradesh & Yanam and Rayalaseema on 27th & 28th November, 2021. Isolated heavy rainfall also very likely over Kerala & Mahe during 24th to 28th November, 2021.
- Squally wind (speed reaching 40-50 kmph gusting to 60 kmph) likely over Southwest Bay of Bengal, Gulf of Mannar along & off south Tamilnadu coast on 24th & 25th November, 2021. Fishermen are advised not venture into these areas.
- Gradual fall in minimum temperatures by 2-4°C very likely over many parts of East India during next 2 days and gradual rise by 2-3°C over most parts of Northwest India 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 hours IST of today): at most places over Kerala & Mahe and North Interior Karnataka; at many places over Arunachal Pradesh, Andaman & Nicobar Islands and Lakshadweep; at a few places over Coastal Andhra Pradesh & Yanam, Coastal &

south Interior Karnataka and Tamilnadu, Puducherry & Karaikal and at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Sub-Himalayan West Bengal & Sikkim, Odisha, Konkan & Goa, Madhya Maharashtra, Chhattisgarh, Telangana and Rayalaseema.

- Fog observed (at 0830 hours IST today) Moderate to dense fog observed in isolated pockets over Sub-Himalayan West Bengal & Sikkim Shallow to moderate fog in isolated pockets over Bihar and Tripura.
- Thunderstorm observed (from 0830 hrs IST of yesterday to 0830 hrs IST of today): at isolated places over Konkan & Goa, Coastal Karnataka, Telangana, Coastal Andhra Pradesh & Yanam, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe.
- Minimum Temperature Departures (as on 24-11-2021): Minimum temperatures are markedly above normal (5.1°C or more) at most places over Madhya Maharashtra, Marathwada and Telangana; at many places over Vidarbha and at a few places over Odisha; appreciably above normal (3.1°C to 5.0°C) at most places over North Interior Karnataka, Coastal Andhra Pradesh & Yanam and Chhattisgarh; at many place sover Saurashtra & Kutch, West Madhya Pradesh, Konkan & Goa and Rayalaseema; at a few places over Gujarat Region, East Madhya Pradesh and Nagaland, Mizoram, Manipur & Tripura and above normal (1.6°C to 3.0°C) at many places over Sub-Himalayan West Bengal & Sikkim, Lakshadweep, Coastal and South Interior Karnataka; at a few places over West Rajasthan, Assam & Meghalaya and Tamilnadu, Puducherry & Karaikal and at isolated p[laces over East Rajasthan. They are appreciably below normal (-3.1°C to -5.0°C) at isolated places over Himachal Pradesh; below normal (-1.6°C to -3.0°C) at many place sover East Uttar Pradesh, Haryana, Chandigarh & Delhi and Bihar and near normal over rest parts of the country. Today, the Lowest minimum temperature of 6.1°C is reported at Hissar (Haryana, Chandigarh & Delhi) 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 Marathwada and Vidarbha; at a few places over Coastal Andhra Pradesh & Yanam and Telangana; at isolated places over Himachal Pradesh, Saurashtra & Kutch, Gangetic West Bengal and Madhya Maharashtra; above normal (1.6°C to 3.0°C) at most places over Jharkhand and Odisha; at many places over Punjab, West Rajasthan, Chhattisgarh, Rayalaseema, South Interior Karnataka; at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Tamilnadu, Puducherry & Karaikal, East Rajasthan, Gujarat Region and Madhya Pradesh.

They were appreciably below normal (-3.1°C to -5.0°C) at a few places over Arunachal Pradesh and Assam & Meghalaya and below normal (-1.6°C to -3.0°C) at a few places over Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim, East Uttar Pradesh and Coastal Karnataka and near normal at rest parts of the country. Yesterday, the highest maximum temperature 35.4°C was reported at Rajkot (Saurashtra & Kutch).

Weather Warning during the next 5 days (IMD)

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

& Yanam, Rayalaseema, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

- 28 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 & Yanam, Rayalaseema, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- The weather outlook for seven days i.e., 24 Nov to 02 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)

Marathwada

Weather condition:

From 12.11.2021 to 18.11.2021 during this week Weather condition of Parbhani center no rainfall was recorded. The Maximum temperature was range from 29.7 to 31.3 0C and minimum temperature range from 15.9 to 23.0 0C. Relative humidity (RH-I) ranged between 57-90% and relative humidity (RH-II) recorded was 47-61% The wind speed varied 3.5 to 6.0 km/hr.

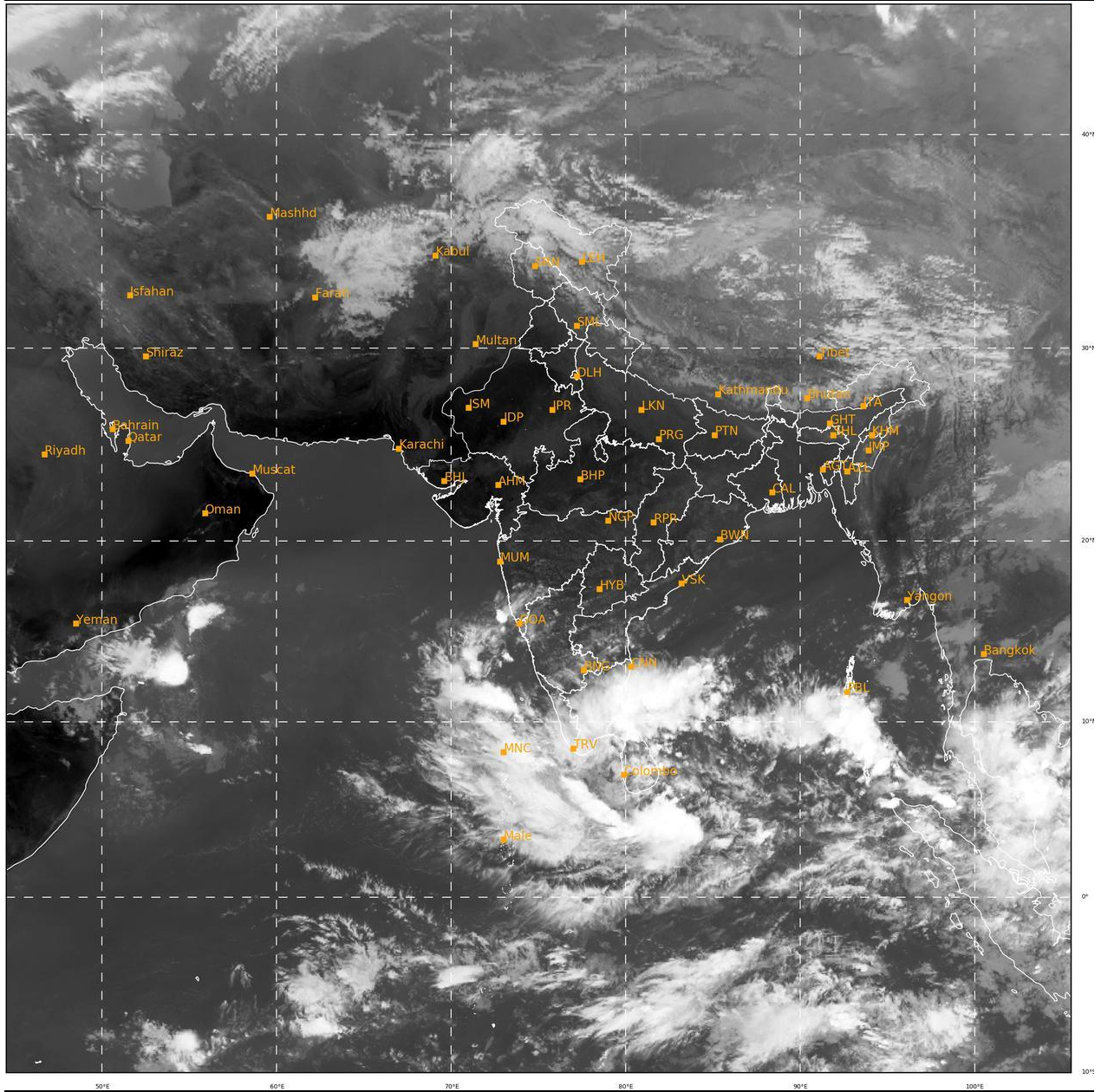
Contingency measure:

- Cotton: For management of pink bollworm in cotton install pink bollworm Pheromone trap @ 5 per acre. Initially take a spray of 5 % NSKE, if infestation is more take a spray of Profenofos 50 % @ 400 ml or Profenofos 40 % + Cypermethrin 4 % (Complex insecticide) @ 400 ml per acre. As per forecast of light rainfall at isolated places during next five days Picking of cotton should be done.
- Pigeon pea: Due to cloudy weather condition infestation of insect and flower drop may observed in pigeonpea crop for management of tur pod borer take a spray of Emamectin Benzoate 5 SG 4.4 gm or Flubendimide 39.35 SC 2 ml or Chlorantraniliprole 18.5 SC 3 ml per 10 liter of water. For management of flower drop take a spray of NAA @ 2 ml per 10 liter of water.
- Chick pea: For proper growth and development of chickpea crop should be weed free during early period. First hoeing should be done 20 to 25 days after sowing in chickpea crop.

- Wheat: Make use of 100 to 120 Kg per hector seed for timely sowing and 125 to 150 Kg per hector seed for late sowing. Sowing should be done at 22.5 cm row spacing.
- Rabi groundnut: First hoeing should be done three weeks after sowing in timely sown Rabi Groundnut.
- Rabi sorghum: Irrigation management should be done by sprinkler irrigation system in Rabi Sorghum as per requirement.
- Rabi sunflower: Irrigation management should be done by sprinkler irrigation system in Rabi Sunflower as per requirement.
- Banana: Irrigation management should be done by micro irrigation system in Banana orchard.
- Mango: Do not irrigate mango orchard for better flowering.
- Custard Apple: As per forecast of light rainfall at isolated places during next five days harvesting of mature fruits in custard apple orchard should be done. Grading of fruits should be done before sending to market.
- Pomegranate: To protect the fruits from piercing moths take bagging of individual fruits with Polypropylene non-woven bags/butter paper bags. Before bagging take the spray if bacterial blight, mealy bugs or as per presence of pests and diseases.
- Vegetable: Weeding and irrigation management should be done in transplanted vegetable crops (Chilli, brinjal, Ladies finger). As per forecast of light rainfall at isolated places during next five days Harvesting of mature vegetable crops should be done, harvested vegetable should be done before sending to market.
- Floriculture: Harvesting of mature flower should be done. Irrigate the floriculture crop as per requirement.
- Animal: Apply curtains of gunny bags to poultry, Sheep and Goat animal shed to protect the animals from cold, during early morning in future.
- Mulberry sericulture: Good quality cocoon production is essential for good market price. One cocoon weight should be 1.5 to 2.0 g. Ten larval weights should be 45 g. It requires good quality mulberry leaf feeding to silkworms. Harvested cocoons should be packed in Gunny cloth or carets while transport, before that double cocoons, wranated cocoons and irregular shape cocoons should be separated. Without graded cocoons fitch less prices in the market sell the cocoons in govt. authorized markets to ensure Rs. 50/- per Kg subsidy No any sample will be taken.

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

24-11-2021/(0800 to 0826) GMT
24-11-2021/(1330 to 1356) IST



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IMD,DELHI

Figure: 1. Latest available satellite picture as on 24 Nov 2021 at 1356 Hrs (IST). (Source: IMD).

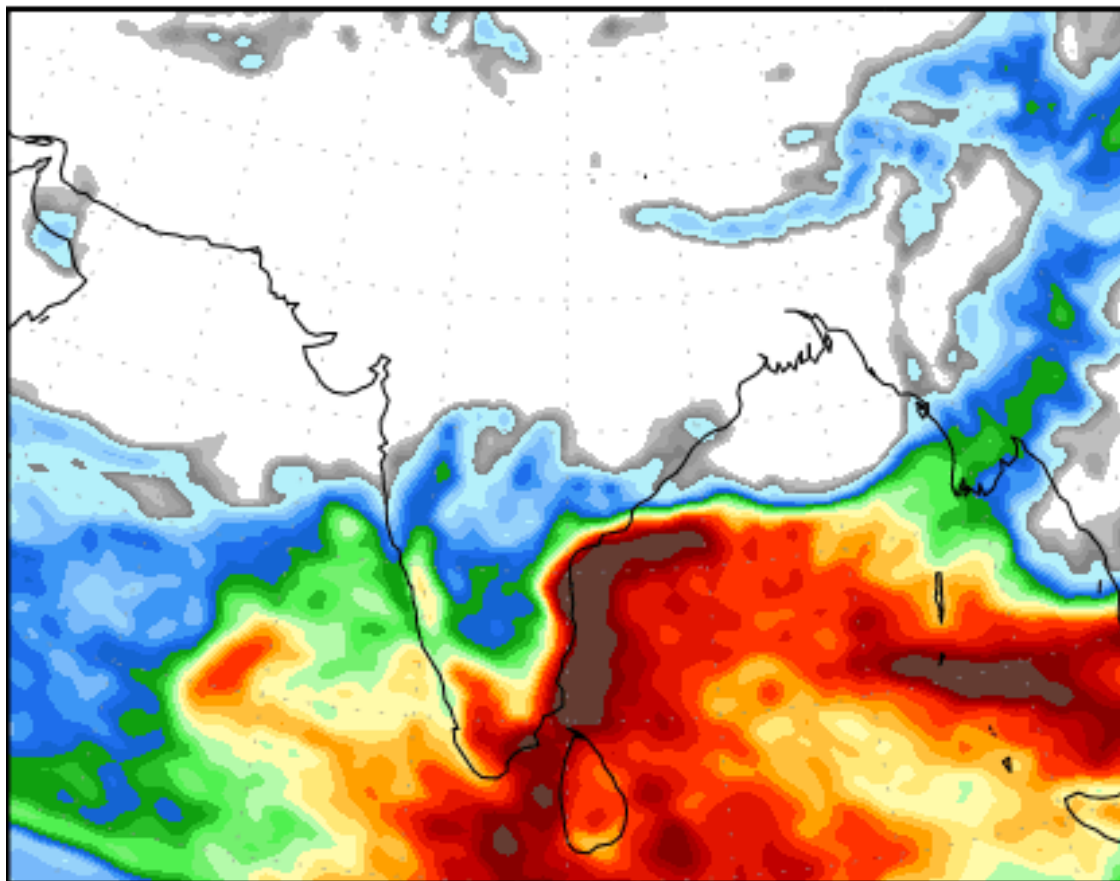


Figure:2. Precipitation forecast for 24 Nov to 02 Dec 2021 (Source: NOAA NCEP).

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