

# **All India Coordinated Research Project on Agrometeorology**

## **CRIDA, Santoshnagar, Hyderabad – 500 059**

### **Daily Crop Weather Information as on 12 November 2021**

**Attention: Rajiv Maheshwari, OSD, ICAR**

#### **Significant Weather Features (IMD)**

- The Well Marked Low Pressure Area over north Tamil Nadu & neighbourhood weakened into a Low Pressure Area and lay over north interior Tamil Nadu and neighbourhood. The associated cyclonic circulation extends upto 5.8 km above mean sea level.
- A trough runs from the cyclonic circulation associated with Low Pressure Area over north interior Tamilnadu to north coastal Odisha across Coastal Andhra Pradesh and extends upto 0.9 km above mean sea level.
- A cyclonic circulation lies over Gulf of Thailand & neighbourhood and extends upto 5.8 km above mean sea level tilting southwestwards with height. It is likely to emerge into south Andaman Sea and under its influence a fresh Low Pressure Area is likely to form over south Andaman Sea and neighbourhood by tomorrow, the 13th November. It is likely to move west-northwestwards and concentrate into a Depression over Eastcentral & adjoining southeast Bay of Bengal on 15th November, 2021.
- Rainfall warning: i) Light to moderate rainfall at many places with heavy to very heavy rainfall at isolated places very likely over Kerala during next 3 days. Heavy rainfall at isolated places very likely over Tamil Nadu, Karaikal & Puducherry & South interior Karnataka during next 5 days and over south Odisha, Coastal Andhra Pradesh and Rayalaseema during next 48 hours. ii) Light to moderate rainfall at most places with heavy rainfall at isolated places very likely over Andaman & Nicobar Islands during 13th -15th November with isolated very heavy falls on 14th November, 2021.
- Shallow to Moderate fog in isolated pockets over Punjab, Haryana, Delhi and West Uttar Pradesh during next 3 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 many places over Coastal Andhra Pradesh & Yanam,

Rayalseema, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal; at many places over Andaman & Nicobar Islands and Lakshadweep; at a few places over Karnataka and at isolated places over Odisha and Telangana.

- Rainfall observed (from 0830 hrs IST of yesterday to 0830 hours IST of today): Heavy to very heavy rainfall at isolated places over Rayalaseema, Tamilnadu and Kerala & Mahe and heavy rainfall at isolated places over Odisha and Coastal Andhra Pradesh.
- Moderate fog observed (0530-0830 hrs IST of today): at isolated pocket over New Delhi. Visibility recorded (0530-0830 hrs IST of today) (200 more & Less): Safdarjung-200 m.
- Thunderstorm observed (from 1730 hrs IST of yesterday to 0830 hours IST of today): at isolated places over Coastal Andhra Pradesh.
- Maximum Temperature Departures as on 11-11-2021: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated place over Assam & Meghalaya; above normal (1.6°C to 3.0°C) at isolated places over Nagaland, Manipur, Mizoram & Tripura; Sub-Himalayan West Bengal & Sikkim and Konkan & Goa. They were markedly below normal (-5.1°C or less) at many places over Rayalaseema; at a few places over Tamilnadu, Puducherry & Karaikal and at isolated places over East Uttar Pradesh; appreciably below normal (-3.1°C to -5.0°C) at many place over Coastal Andhra Pradesh & Yanam and South Interior Karnataka; at a few places over Haryana, Chandigarh & Delhi and at isolated place over Madhya Pradesh, Odisha & Telangana; below normal (-1.6°C to -3.0°C) at many places over Coastal & North Interior Karnataka; at a few places over Vidharbha; at isolated places over Himachal Pradesh, West Uttar Pradesh, Madhya Maharashtra, Marathawada and Andaman & Nicobar Islands and near normal at rest parts of the country. Yesterday, the maximum temperature 36.2°C was reported at Bhuj (Saurashtra & Kutch).
- Minimum Temperature Departures as on 12-11-2021: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at many place over Odisha and at a few places over Telangana; above normal (1.6°C to 3.0°C) at most paces over Gangetic West Bengal, Chhattisgarh, Coastal Andhra Pradesh & Yanam, at a few places over Rayalseema and Andaman & Nicobar Islands and at isolated places over Sub-Himalayan West Bengal & Sikkim, Kerala & Mahe and Nagaland, Manipur, Mizoram & Tripura. They are below normal (- 1.6°C to -3.0°C) at many places over East Rajasthan, West Madhya Pradesh and Gujarat state; at a few places over Vidarbha and Madhya Maharashtra and at isolated places over East Madhya Pradesh, Tamilnadu, Puducherry & Karaikal and Marathawada and near normal

over rest parts of the country. Today, the lowest minimum temperature of 9.0°C reported at Raisen (West Madhya Pradesh) and Sikar (East Rajasthan) over the plains of the country

### **Weather Warning during the next 5 days (IMD)**

- 12 November (Day 1): Heavy to very heavy rainfall at isolated places very likely over Kerala & Mahe and Heavy rainfall at isolated places over Odisha, Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and South Interior Karnataka. Thunderstorm accompanied with lightning very likely at isolated places over Konkan & Goa, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Squally weather (speed reaching 40-50 kmph gusting to 60 kmph) very likely over Gulf of Mannar and adjoining Comorin area; Southeast Arabian Sea along & off Kerala coast. Fishermen are advised not to venture into these areas.
- 13 November (Day 2): Heavy to very heavy rainfall at isolated places very likely over Kerala & Mahe and Heavy rainfall at isolated places over Odisha, Andaman & Nicobar Islands, Tamil Nadu, Puducherry & Karaikal and South Interior Karnataka. Thunderstorm accompanied with lightning very likely at isolated places over Andaman & Nicobar Islands, Konkan & Goa, Madhya Maharashtra, Marathawada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Squally weather (speed reaching 40-50 kmph gusting to 60 kmph) very likely over south Andaman sea. Fishermen are advised not to venture into these areas.
- 14 November (Day 3): Heavy to very heavy rainfall at isolated places very likely over Andaman & Nicobar Islands and Kerala & Mahe and Heavy rainfall at isolated places over Tamil Nadu, Puducherry & Karaikal and South Interior Karnataka. Thunderstorm accompanied with lightning very likely at isolated places over Andaman & Nicobar Islands, Konkan & Goa, Madhya Maharashtra, Marathawada, Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Squally weather (speed reaching 40-50 kmph gusting to 60 kmph) very likely over south Andaman sea. Fishermen are advised not to venture into these areas.
- 15 November (Day 4): Heavy rainfall at isolated places likely over Andaman & Nicobar Islands, Tamil Nadu, Puducherry & Karaikal, South Interior Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning likely at isolated places over Andaman & Nicobar Islands, Konkan & Goa, Madhya Maharashtra,

Marathwada, Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Squally weather (speed reaching 45-55 kmph gusting to 65 kmph) likely over Southeast & adjoining central Bay of Bengal and Andaman Sea. Fishermen are advised not to venture into these areas.

- 16 November (Day 5): Heavy rainfall at isolated places likely over Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal, South Interior Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning likely at isolated places over Konkan & Goa, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Squally weather (speed reaching 45-55 kmph gusting to 65 kmph) likely over Southeast & adjoining Southwest and central Bay of Bengal. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 12 Nov to 20 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)**

### **Maharashtra-Vidarbha**

#### **Weather condition:**

Weekly average means (45 MW) at AICRPAM Akola centre: T max 31.3°C (normal 32.2°C), T min 13.8°C (normal 15.3°C). RH I 81 % (normal 72 %), RH II 36 % (normal 33 %). Evaporation rate 4.8 mm (normal 4.8 mm), Wind 0.7 km/hr (normal 3.6 km/hr) and BSH 7.8 hrs (normal 8.2 hrs). Maximum temperature across the week was 0.9°C below normal with a deviation of -1.3 to -0.5°C from normal. Minimum temperature across the week 1.4° below normal with a deviation of -5.0 to +1.3°C from normal.

#### **Contingency measure:**

- Block level forecast (Akola) indicates dry weather very likely to prevail during 11 to 15 November. With prevalence of mainly dry weather undertake clean picking of burst bolls in earlier sown cotton and properly dry the produce before safe storage, variety wise. If pink boll worm infestation crosses ETL level undertake spray of Profenophos 50 EC @ 30ml or Indoxacarb 14.5 SC @ 5ml or Emamectin benzoate 5 SG @ 5g per 10 litres of water. To avoid the rotting of matured bolls from outer side it is advised to undertake the spray of propiconazole 25 EC@10 ml or propineb 70 WP@ 25 -30 g in 10 litres of water. For control of for internal rotting of bolls, spray Copper Oxychloride 50 wp 25 g + Streptomycin 2 g per 10

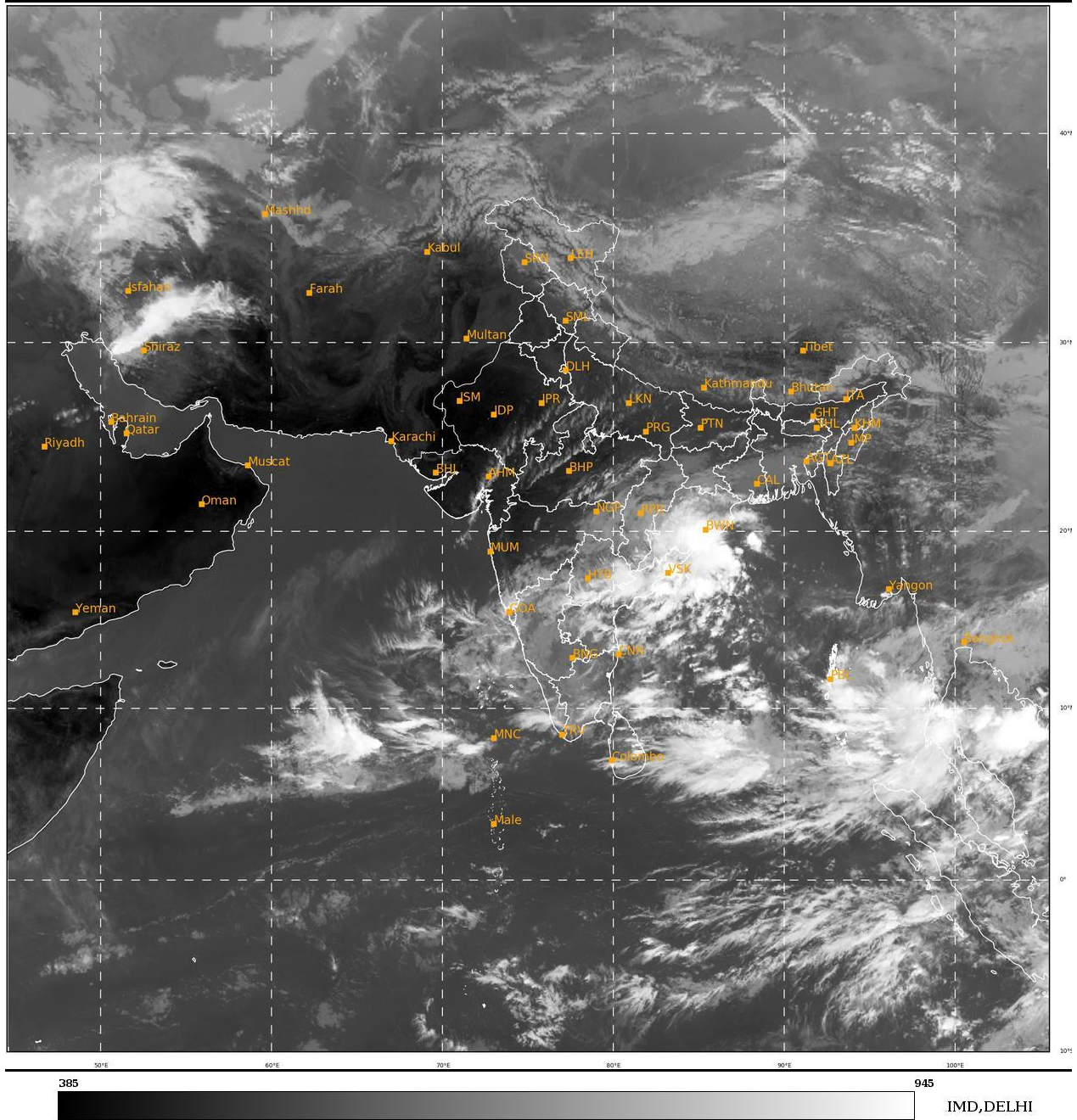
litres of water. Install pheromone traps @ 5/ha for monitoring of *Helicoverpa* in pigeonpea. Monitor for presence of eggs & small larvae. Erect bird perches randomly in the pigeonpea field to encourage predation by insectivorous birds.

- For control of leaf folder remove the webbed leaves along with larvae and destroy them. Apply top dressing of nitrogen fertilizer @ 40 kg N/ha to 25-30 days old rabi sorghum/rabi maize crop at adequate soil moisture.
- Monitor for incidence of sap sucking aphids in safflower crop rows particularly adjacent to weedy field boundaries, for control undertake spray limited to infested boundary rows with dimethoate 30% EC @ 10 ml per 10 litres of water. Under irrigated condition undertake sowing of chickpea (Jaki 9218, PDKV Kanchan, Vijay). Wilt resistant varieties include JAKI 9218, Vishal, ICCV-2, ICCV-10 etc. Seed treatment with *Rhizobium* + PSB (each 25 g / kg seed) and biofungicide *Trichoderma* @ 4 g per kg seed is advisable. Timely sowing of irrigated wheat of (Vimal, AKW1071(Purna), MACS-2896, MACS-6222, HD-2189, GW-322) can preferably done by 15 November. Follow seed treatment with vitavax 75 % WP @ 2.5 g / kg seed. Also seed treatment with *Azotobacter* and PSB @ 25 g each /kg seed treatment is advisable.
- Under irrigated condition mustard can normally be sown by first fortnight of November. Under insufficient soil moisture condition for irrigated crop; one pre-sowing irrigation and subsequent sowing at proper wapsa condition is advisable.
- Undertake harvesting of mature and ripe amba bahar orange fruits and grading the produce for better marketability. Ensure timely harvest of guava (mrig bahar) and custard apple fruits. For management of hasta bahar in acid lime undertake spray of potassium nitrate 2% at release of moisture stress.
- Undertake recommended manuring/fertilization as per age of orchard trees. Need based protective irrigation is advisable in vegetables. Undertake nursery sowing of onion (white onion varieties: Akola safed, Phule safed, Yashoda, Bhima Shweta; Red onion varieties: Pusa Red, Niphad 53, Agrifound light red, N 2-4-1, Arka Pragti).
- Screening of farm livestock, draught/milch animals for diseases be considered and they be vaccinated. for foot and mouth disease (FMD). With decrease in night temperature protect newly born calf and milch animals from evening/morning cold.

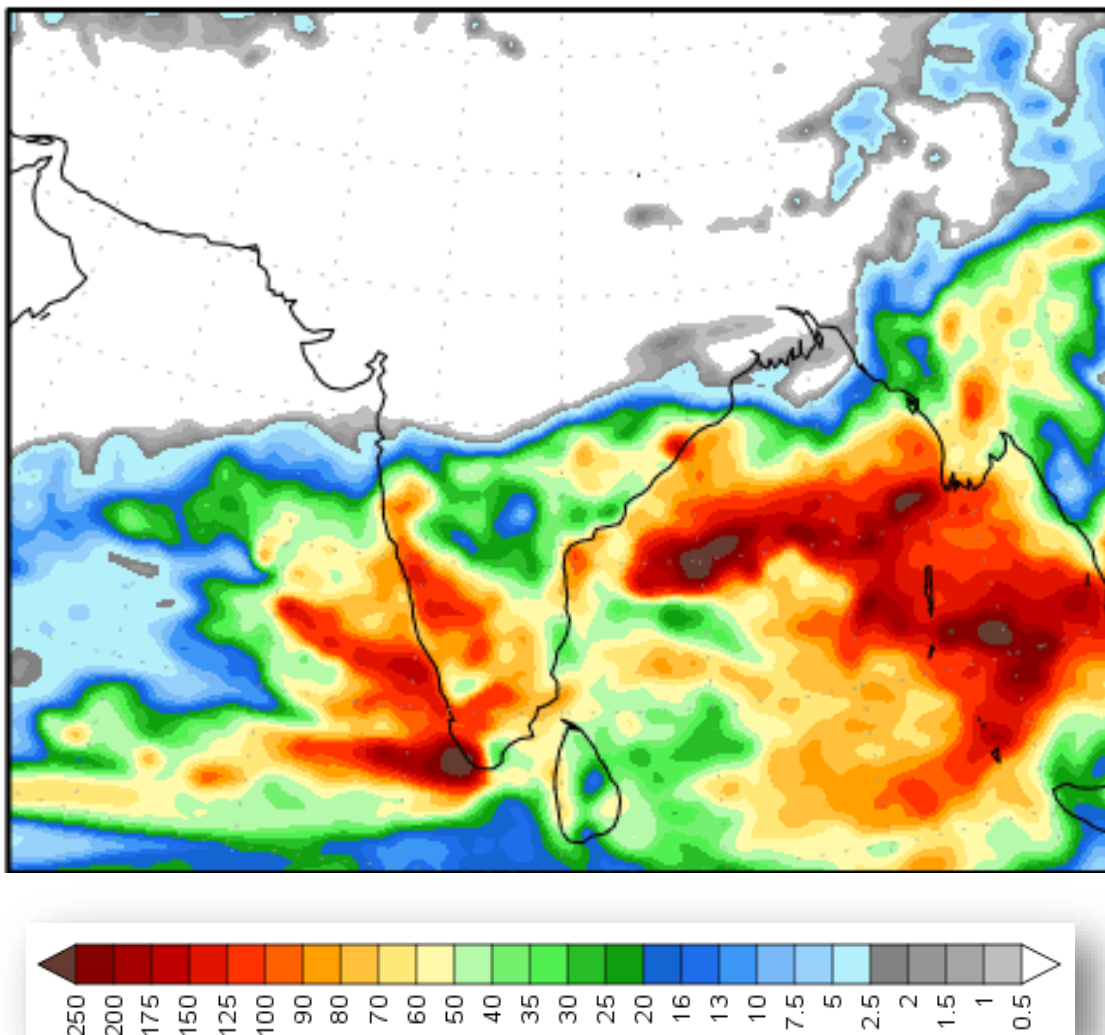


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IMG\_TIR1 10.8 um  
L1C Mercator

12-11-2021/(0800 to 0827) GMT  
12-11-2021/(1330 to 1357) IST



**Figure: 1. Latest available satellite picture as on 12 Nov 2021 at 1357 Hrs (IST). (Source: IMD).**



**Figure:2. Precipitation forecast for 12 Nov to 20 Nov 2021 (Source: NOAA NCEP).**

*Disclaimer: The predictability of weather depends on many dynamic factors. The success of Agromet advisories provided here depends on the accuracy of the forecasts. In no event will India Meteorological Department (IMD) and Indian Council of Agricultural Research (ICAR) be liable to the user or any third party for any direct, indirect, incidental, consequential, special or exemplary damages or lost profit resulting from any use or misuse of the information on this bulletin.*