

# All India Coordinated Research Project on Agrometeorology

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

## Daily Crop Weather Information as on 27 October 2021.

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

### Significant Weather Features (IMD)

- A Low Pressure Area has formed over central parts of South Bay of Bengal with the associated cyclonic circulation extending upto 5.8km above mean sea level. It is likely to move westwards during next 3 days. A trough in easterlies runs from the cyclonic circulation associated with this Low Pressure Area to Northwest Bay of Bengal.
- Under the influence of above systems:
  - (i) Heavy rainfall at a few places with very heavy rainfall at isolated places very likely over Coastal Tamilnadu during 28th-30th with isolated extremely heavy falls on 29th October 2021. Isolated heavy rainfall over rest parts of Tamil Nadu and Kerala & Mahe during 27th- 31th.
  - (ii) Heavy rainfall at isolated places very likely over Coastal Andhra Pradesh during 28th-31st with isolated very heavy falls on 29th October 2021. Heavy rainfall at isolated places very likely over Coastal & South Interior Karnataka during 30th-31st and over Rayalaseema during 29th-30th October, 2021. Thunderstorm & lightning very likely over Kerala & Mahe and Tamilnadu, Puducherry & Karaikal 27th-31th; over Coastal Andhra Pradesh and Rayalaseema during 28th-31th and over Coastal & South Interior Karnataka during 30th-31st October, 2021.
- Mainly dry weather very likely to prevail over rest parts of the country during next 5-6 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 Kerala & Mahe; at a few places over Tamilnadu, Puducherry & Karaikal and at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Odisha, Rayalaseema, West Madhya Pradesh, Sikkim, Tripura and South Interior Karnataka.
- Significant amount of Rainfall (from 0830 hrs IST of yesterday to 0830 hours IST of today)(more than 1 cm): South Interior Karnataka: Mysuru-9; Kerala & Mahe:Punalur-3, Kozhikode-1; Andaman & Nicobar Islands: Hut Bay-2;

Tamilnadu, Puducherry & Karaikal: Coonoor, Thanjavur, Atiramapattinam-1 each; Himachal Pradesh-Manali-1.

- Heavy rainfall observed (from 0830 hrs IST of yesterday to 0830 hours IST of today): at isolated places over South Interior Karnataka.  
Thunderstorm observed (from 0830 hrs IST of yesterday to 0830 hours IST of today): at isolated places over Tamilnadu and Kerala.
- Maximum Temperature Departures as on 26-10-2021: Maximum temperatures were above normal (1.6°C to 3.0°C) at isolated places over Assam & Meghalaya, Odisha and Coastal Andhra Pradesh. They were markedly below normal (-5.1°C or less) at isolated places over West Rajasthan and Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; appreciably below normal (-3.1°C to -5.0°C) at many places over Haryana, Chandigarh & Delhi; at isolated places over East Rajasthan, West Madhya Pradesh and West Uttar Pradesh; below normal (-1.6°C to -3.0°C) at most places over Punjab; at many places over East Uttar Pradesh and Coastal Karnataka; at a few places over Gujarat state and Tamilnadu, Puducherry & Karaikal and at isolated places over Himachal Pradesh and Andaman & Nicobar islands and near normal at rest parts of the country. Yesterday, the maximum temperature 35.6°C was reported at Bhuj (Saurashtra & Kutch).
- Minimum Temperature Departures as on 27-10-2021: Minimum temperatures are markedly above normal (5.0°C or more) at isolated places over West Madhya Pradesh; appreciably above normal (3.1°C to 5.0°C) at many places over Bihar at isolated places over Jharkhand and West Rajasthan; above normal (1.6°C to 3.0°C) at a few places over Andaman & Nicobar Islands, Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal, Odisha, Rayalaseema and Kerala & Mahe; at isolated places over East Rajasthan, Gujarat State, Sub-Himalayan West Bengal & Sikkim, Punjab & Lakshadweep. They are below normal (-1.6°C to -3.0°C) at many places over Haryana, Chandigarh & Delhi, Madhya Maharashtra, Telangana and North Interior Karnataka at a few places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Konkan & Goa; at isolated places over Himachal Pradesh, Uttar Pradesh, Coastal Andhra Pradesh & Yanam and Vidarbha and near normal over rest parts of the country. Today, the lowest minimum temperature of 11.0°C is reported at Sikar (East Rajasthan) over the plains of the country.

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

- 27 October (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 Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.  
Squally weather (speed reaching 40-50 kmph gusting to 60 kmph) very likely over Southwest Bay of Bengal. Fishermen are advised not to venture into these areas.
- 28 October (Day 2): Heavy to very heavy rainfall at isolated places very likely over Coastal Tamilnadu; Heavy rainfall very likely at isolated places over Coastal Andhra Pradesh & Yanam, Kerala & Mahe and interior Tamil Nadu.  
Thunderstorm accompanied with lightning very likely at isolated places over 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 Southwest Bay of Bengal and along & off Tamilnadu coast. Fishermen are advised not to venture into these areas.
- 29 October (Day 3): Heavy rainfall at a few places with very heavy rainfall at isolated places very likely over Coastal Tamilnadu; heavy to very heavy rainfall at isolated places over Coastal Andhra Pradesh & Yanam and heavy rainfall at isolated places over Rayalaseema, interior Tamil Nadu 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.  
Squally weather (speed reaching 40-50 kmph gusting to 60 kmph) very likely over Southwest Bay of Bengal and along & off Tamilnadu coast, Gulf of Mannar, Comorin area, Southeast Arabian Sea off Kerala Coast. Fishermen are advised not to venture into these areas.
- 30 October (Day 4): Heavy rainfall at a few places with very heavy rainfall at isolated places likely over Coastal Tamilnadu and Heavy rainfall likely at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal & South Interior Karnataka, interior Tamil Nadu and Kerala & Mahe.  
Thunderstorm accompanied with lightning 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) likely over Southwest Bay of Bengal and along & off Tamilnadu coast, Gulf of Mannar, Comorin area, Southeast Arabian Sea off Kerala Coast. Fishermen are advised not to venture into these areas.
- 31 October (Day 5): Heavy to very heavy rainfall at isolated places likely over Tamilnadu, Puducherry & Karaikal; Heavy rainfall likely at isolated places over Coastal Andhra Pradesh & Yanam, Coastal & South Interior Karnataka and Kerala & Mahe.  
Thunderstorm accompanied with lightning 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) likely over Gulf of Mannar, Comorin area, Southeast Arabian Sea off Kerala Coast.  
Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 27 Oct to 02 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)

### Assam

#### Weather condition:

Weather during the last week was mainly clear to partly cloudy. Daily average maximum temperature was 33.8°C which was 3.4°C above normal and the average daily minimum temperature was 24.1°C which was 2.6°C above normal for the week. The daily average evaporation rate was 2.6 mm/day and the average daily wind speed during the week 2.1 kmph. Daily average RH during morning and afternoon hour was 94.0% and 72.6% respectively.

#### Contingency measure:

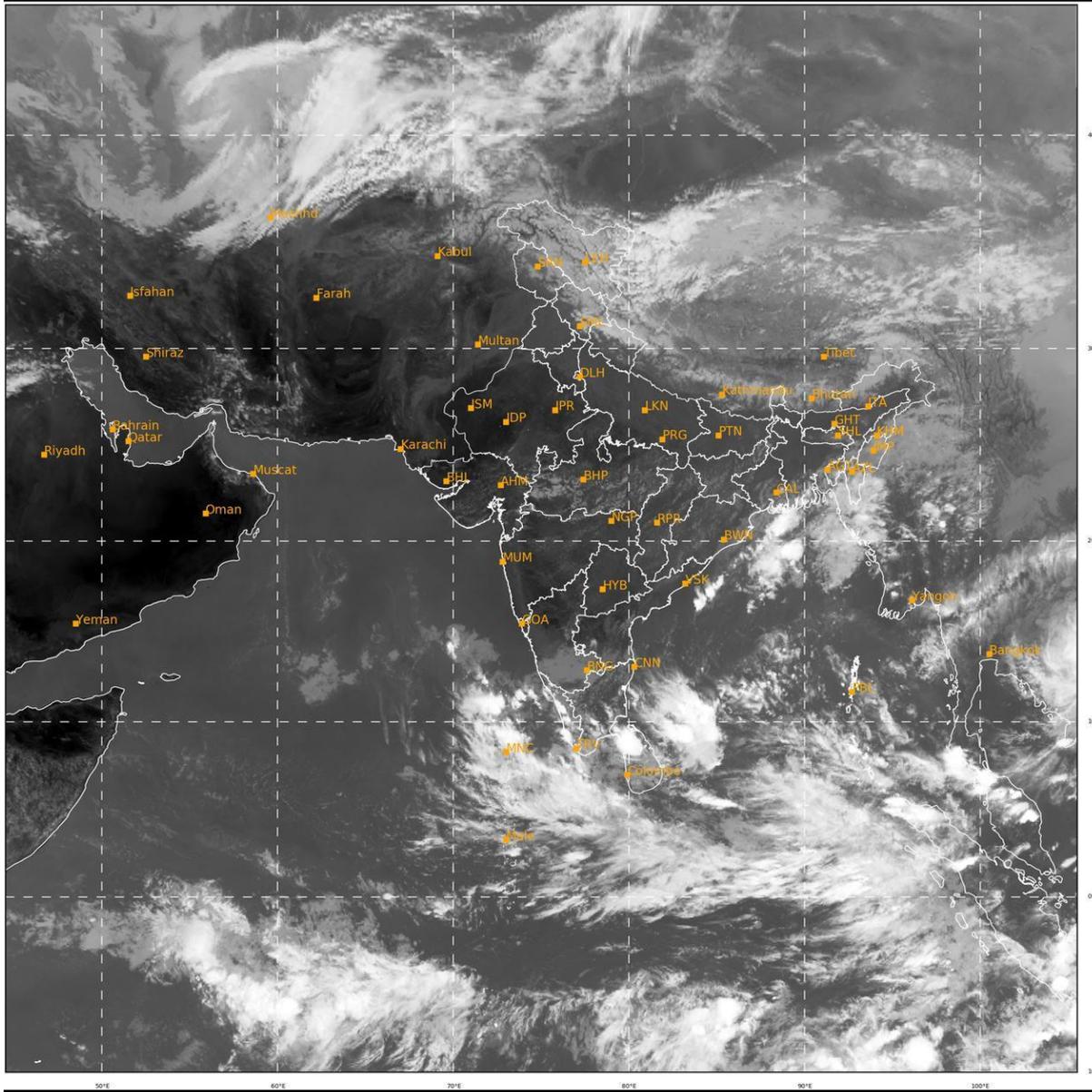
- Sali rice is in milking stage of rice, attack of gundhi bug may be observed in the crop field. To control the pest population apply neemazal @ 10ml per litre of water or Neem Seed Kernel Extract (NSKE) @ 1.5g per litre of water during evening hours. Apart from the chemical treatment, farmers may also go for adoption of ITK like- hanging of dead frogs or crabs in the middle of the field to attract the pest.
- In Rabi Maize due to occurrence of moderate level of rainfall during past week there may be appearance of weeds in the maize field. Light hoeing may be given for better control of weeds. Apply Urea @ 6-8kg per bigha in maize crop when the crop attains knee high stage (or 30 days). Placement of fertilizer is more effective than broadcasting in Maize crop.
- To control cut worm infestation during early age of the crop, apply Malathion 5% dust @ 3.5kg/bigha as soil treatment.
- In Kharif pulses such as green and black gram provide surface drainage to avoid water stagnation their field. Weeding may be done at 20-25 days after sowing.
- In Potato as the temperature regimes are becoming favourable for potato cultivation. Well drained sandy loam and loam soil rich in organic matter may be selected for land preparation. Field should be ploughed thoroughly to obtain a good tilth followed by preparation of furrows at a spacing of 50cm apart.
- Approximately three carts loads of well decomposed FYM should be applied per hectare land in the furrows before planting. Under rainfed potato cultivation; apply 19kg Urea, 45kg SSP and 12kg MOP in furrows as basal dose for per hectare land. The fertilizer in furrows should be covered with thin layer of soils so those tubers do not come in direct contact with the fertilizers.
- In Rapeseed land preparation is to be done followed by sowing of seeds, sowing should be continued for rapeseed and mustard cultivation as

early sowing helps in escaping the attack of aphids. During the time of final land preparation, apply 3-4 quintals of FYM, 12kg Urea, 30kg SSP and 25kg MOP and mix thoroughly in the soil. Collect recommended varieties of rapeseed viz., TS-38, M-27 and TS-36 which are suitable for all agro-climatic zones of Assam.

- Livestock: Feeding of milch cows with protein, vitamin and mineral feed supplements in addition to green fodder for obtaining higher milk production is recommended. Before and after milching of cows; udder should be cleaned with turmeric diluted water. Apply turmeric, neem and sesame oil mixture twice in a week on animals body to keep insects and ticks away.

SAT : INSAT-3D IMG  
IMG\_TIR1 10.8 um  
L1C Mercator

27-10-2021/(0900 to 0926) GMT  
27-10-2021/(1430 to 1456) IST

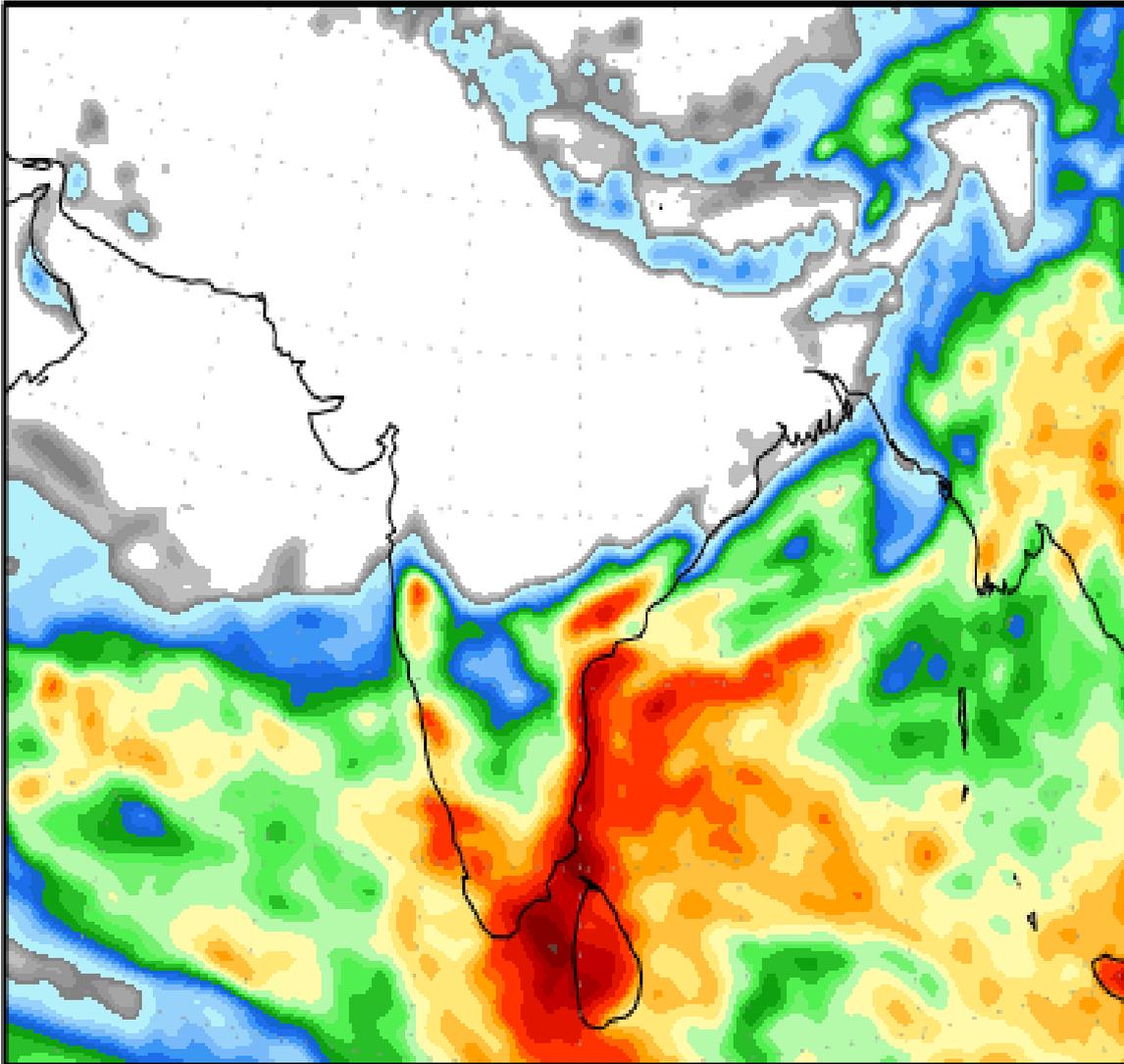


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IMD, DELHI

Figure: 1. Latest available satellite picture as on 27 Oct 2021 at 1430 Hrs (IST).  
(Source: IMD).



**Figure:2. Precipitation forecast for 27 Oct to 04 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.*