

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

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

### **Daily Crop Weather Information as on 29 October 2021**

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

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

- A Low Pressure Area lies over Southwest Bay of Bengal adjoining Sri Lanka off Tamil Nadu coast and the associated cyclonic circulation extends upto 3.1 km above mean sea level. It is likely to move westwards during next 3-4 days. A trough in easterlies runs from the cyclonic circulation associated with this Low Pressure Area to north Coastal Andhra Pradesh.
- Under the influence of above systems:
  - (i) Heavy rainfall at isolated places very likely over Tamilnadu, Puducherry & Karaikal and Kerala & Mahe during 29th October-02nd November; over Kerala & Mahe during 29th October-01st November; Over south Interior Karnataka on 01st & 02nd November; over south Coastal Andhra Pradesh & Yanam and Rayalaseema on 29th October. Isolated very heavy rainfall very likely over Tamilnadu, Puducherry & Karaikal on 29th & 30th October and over Kerala & Mahe 31st October, 2021.
  - (ii) Thunderstorm & lightning very likely over Kerala & Mahe, Lakshadweep, Tamilnadu, Puducherry & Karaikal during 29th October 02nd November; over South Interior Karnataka, Coastal Andhra Pradesh and Rayalaseema during 29th-31st October, 2021.
- Mainly dry weather very likely to prevail over most parts of Northwest and Central India and many parts of East & Northeast 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 many places over Kerala & Mahe and Tamilnadu, Puducherry & Karaikal; at a few places over Coastal Andhra Pradesh & Yanam and Lakshadweep and at isolated places over Andaman & Nicobar Islands, Odisha, Gangetic West Bengal, Telangana, Rayalaseema and Coastal Karnataka.

- Heavy rainfall observed (from 0830 hrs IST of yesterday to 0830 hours IST of today): Heavy to very heavy rainfall at isolated places over Tamilnadu, Puducherry & Karaikal.
- Thunderstorm observed (from 0830 hrs IST of yesterday to 0830 hours IST of today): at a few places over Tamilnadu, Puducherry & Karaikal and Kerala & Mahe and at isolated places over Odisha, Coastal Andhra Pradesh & Yanam.
- Maximum Temperature Departures as on 28-10-2021: Maximum temperatures were above normal (1.6°C to 3.0°C) at most places over Assam & Meghalaya; at many places over Arunachal Pradesh; at a few places over Telangana and Konkan & Goa; at isolated places over West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal. They were appreciably below normal (-3.1°C to -5.0°C) at a few places over Haryana, Chandigarh & Delhi and West Madhya Pradesh; at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, West Rajasthan and East Madhya Pradesh; below normal (-1.6°C to -3.0°C) at many places over Uttar Pradesh; at a few places over Himachal Pradesh, Gujarat state and Odisha; at isolated places over Andaman & Nicobar islands and near normal at rest parts of the country. Yesterday, the maximum temperature 36.4°C was reported at Bhuj (Saurashtra & Kutch) & Ratnagiri (Konkan & Goa).
- Minimum Temperature Departures as on 29-10-2021: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at a few places over Nagaland, Manipur, Mizoram & Tripura and at isolated places over West Rajasthan; above normal (1.6°C to 3.0°C) at most places over Odisha and Rayalseema; at many places over Gangetic west Bengal, Coastal Andhra Pradesh & Yanam, Andaman & Nicobar Islands and South Interior Karnataka; at a few places over Assam & Meghalaya and Madhya Maharashtra, and at isolated places over Saurashtra & Kutch, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal. They are below normal (-1.6°C to -3.0°C) at most places over Vidarbha; at many places over Est Madhya Pradesh and Marathwada; at a few places over Jammu, Kashmir, Ladakh, GilgitBaltistan & Muzaffarabad, Haryana, Delhi & Chandigarh and West Madhya Pradesh and at isolated places Konkan & Goa and near normal over rest parts of the country. Today, the lowest minimum temperature of 10.2°C was reported at Sikar (East Rajasthan) over the plains of the country.

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

- 29 October (Day 1): Heavy to very heavy falls very likely at isolated places over south coastal Tamilnadu, Puducherry & Karaikal and Heavy rainfall at isolated places over south 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, Lakshadweep and Kerala & Mahe. ♦ Squally weather (speed reaching 40-50 kmph gusting to 60 kmph) very likely over Southwest Bay of Bengal off Sri Lanka coast and Gulf of Mannar. Fishermen are advised not to venture into these areas.

- 30 October (Day 2): Heavy to very heavy falls very likely at isolated places over Tamilnadu, Puducherry & Karaikal and Heavy rainfall at isolated places over Kerala & Mahe. Thunderstorm accompanied with lightning very likely at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Lakshadweep and Kerala & Mahe. Squally weather (speed reaching 40-50 kmph gusting to 60 kmph) very likely over Gulf of Mannar. Fishermen are advised not to venture into these areas.
- 31 October (Day 3): Heavy to very heavy falls very likely at isolated places over Kerala & Mahe and Heavy rainfall at isolated places over Tamilnadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning very likely at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Lakshadweep and Kerala & Mahe. Squally weather (speed reaching 40-50 kmph gusting to 60 kmph) very likely over Gulf of Mannar. Fishermen are advised not to venture into these areas.
- 01 November (Day 4): Heavy rainfall likely at isolated places over South Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm accompanied with lightning likely at isolated places over south Konkan & Goa, south Madhya Maharashtra, Tamil Nadu, Puducherry & Karaikal, Lakshadweep and Kerala & Mahe.
- 02 November (Day 5): Heavy rainfall likely at isolated places over South Interior Karnataka and Tamilnadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning likely at isolated places over south Konkan & Goa, south Madhya Maharashtra, Tamil Nadu, Puducherry & Karaikal, Lakshadweep and Kerala & Mahe.
- The weather outlook for seven days i.e., 29 Oct to 04 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)

### Western U.P

#### Weather condition:

Clear weather may be expected during 27-31 October and no rainfall forecast during this week. Maximum and minimum temperature may be 1-20C higher to its normal. Northwesterly winds may be prevailing on 5.6 to 8.8 km/hr which is 2-3 kmph higher to its normal during these days as per forecast.

#### Contingency measure:

- Paddy:As per forecast clear weather appearing from coming week farmers are advised harvest mature paddy crop. Look for incidence of Army worm if seen spray Clopyrifos 20 EC @2.5 lt. per hectare used .
- Sorghum:Watchful from birds and for control measure of Ear head mite and Mite of Jowar spray Fenitrothion 50 EC or Quinalphos 25 EC, 2.0 lt. /ha with 500 to 600 lt. of water .
- Pearl millet:Clear weather appearing from 27-31 Oct., 2021, farmers are advised harvesting and threshing should be done.
- Wheat:Sowing of rain-fed wheat varieties such as K-8027, K-8962, K-9465, K-9351, HDR-77, HD-2888 and K-9644 and recommend Durum varieties such as Meghdoot, Vijaya , GW-2, HD-4672 and Sujata. Arrangement of seed and fertilizer for irrigated wheat.
- Barley:Sowing of barley varieties viz., Joty K-572/10, Azad K-125, K-141, Priti K-409 Lakhan RS-6, K-603 and K-1149 using 100 kg seed/ ha.
- Pigeon pea:If seen leaf roller spray Quinalphos 25 EC, 2.0 lt. /ha with 500 to 600 lt. of water.
- Gram:Used treated seed of gram varieties such as KWR-108, Radhey, JG-16, K-850, WCG-1, 2 and KGD-1168 for sowing.
- Pea:Sowing of pea varieties such as KPMR-400, KFPD-103, JP-885, IPF-99-25, IPFD-99-13 and KPMR-522 with 100 kg of treated seed per ha and sowing should try to be completed in this week.
- Lentil:Sowing with lentil varieties viz; IPL-81, K-75, KLS-218, IPL-406, Shekhar-3 and Shekhar-2.
- Toria:After weeding top dressed remaining dose of Urea at optimum moisture.
- Mustard:Continues sowing should be done by any one from these varieties such as Varuna (T-59), Basanti, Rohini, Maya, Urbashi, NDR-8501, Vaibhav , CS-52 and CS-54 with 60 : 60: 60 and 40 kg NPK and S, respectively at the time of sowing. Used 3.3 lt./ha Pendimethalin with 600lt. water solution before germination.

- Brinjal / Chilies:Transplanting should be done with new seedlings. Pick up mature fruits from standing crop, watching insect & pest, if need apply recommended dose of insecticide.
- Leafy: Sowing, cutting and marketing . Potato:Sowing of medium duration varieties such as K. sheetman, K. Sinduri, Chipsona-1 and 2. Potato seed should be keep out from cold storage, before 7-10 days of sowing.
- Barseem:Sowing of varieties, viz.; T-5, T-26, T-9, T-780 and Maiskavi and moisture should be apply as per need.
- Animal:Balanced diet should be given for milch animal with 50% green fodder. Common diseases of animals are Anthrax (high fever and enlargement of spleen), the others are Gala Ghotu (respiratory trouble and Surra (Sudden death of animals after restlessness). The routine immunization of animals becomes necessary since disease decrease milk production capacity among milch animals if need concerned near Veterinary hospital.

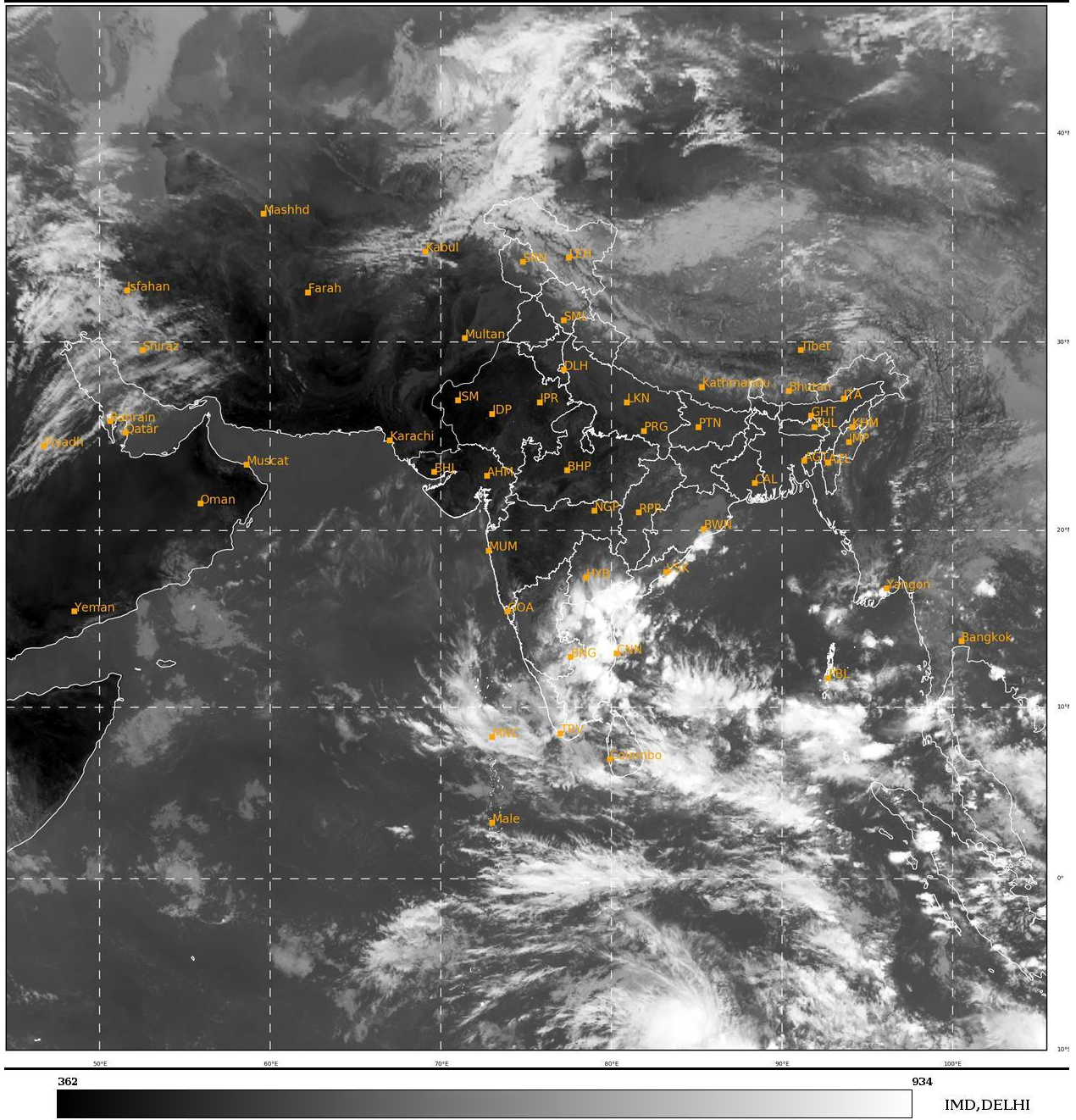
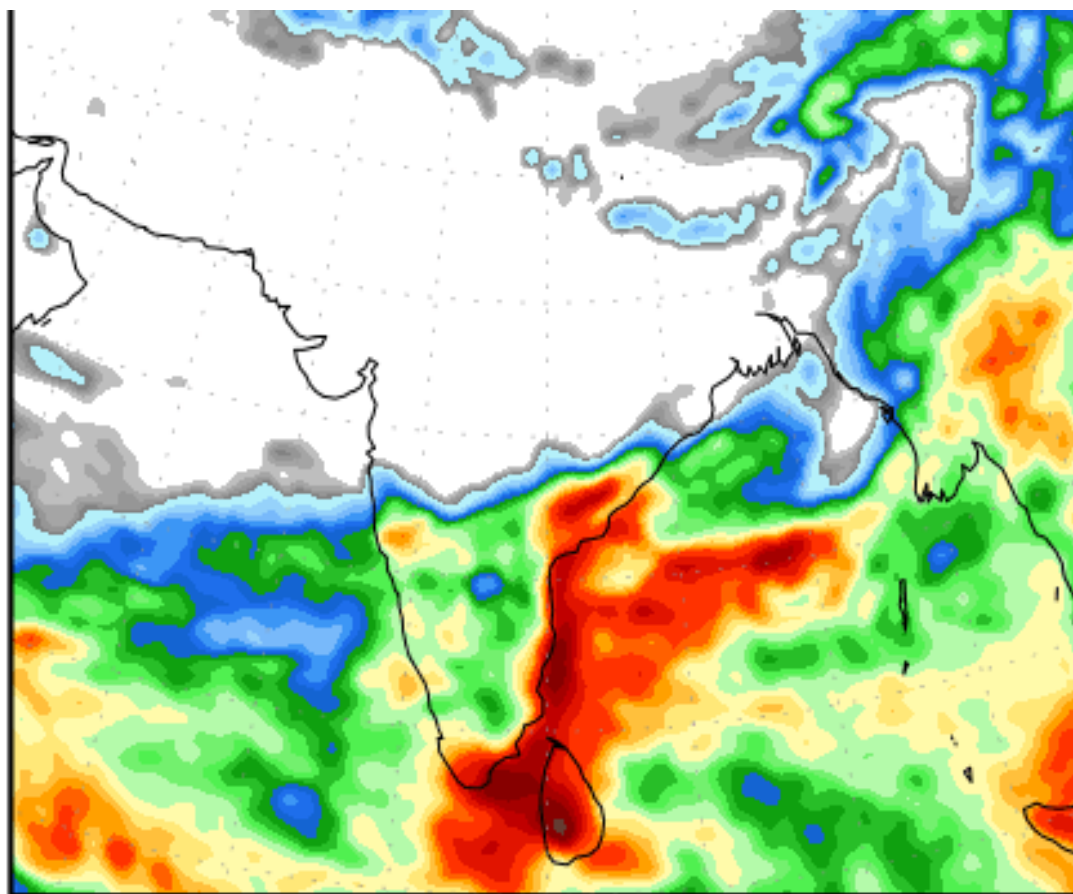


Figure: 1. Latest available satellite picture as on 29 Oct 2021 at 1356 Hrs (IST). (Source: IMD).



**Figure:2. Precipitation forecast for 29 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.*