

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 28 October 2021.

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A Low Pressure Area lies over southwest Bay of Bengal off Sri Lanka coast and the associated cyclonic circulation extends upto 3.1 km above mean sea level. It is likely to move westwards during next 48 hours. 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 to very heavy rainfall at isolated/few places very likely over Tamilnadu and isolated heavy rainfall over Kerala & Mahe during 28th October-01st November, 2021.
 - (ii) Heavy rainfall at isolated places very likely over Coastal Andhra Pradesh during 28th-31st October with isolated very heavy falls on 29th October 2021. Heavy rainfall at isolated places very likely over Coastal & South Interior Karnataka on 31st and over Rayalaseema during 29th-30th October, 2021. (iii) Thunderstorm & lightning very likely over Kerala & Mahe, Tamilnadu, Puducherry & Karaikal and Coastal Andhra Pradesh during 28th October-01st November and over Rayalaseema during 29th October-01st November, 2021.
- Mainly dry weather very likely to prevail over most parts of Northwest, West & 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 most places over Lakshadweep and Kerala & Mahe; at a few places over Andaman & Nicobar Islands, Nagaland, Manipur, Mizoram & Tripura, Odisha and Tamilnadu, Puducherry & Karaikal and at isolated places over Himachal Pradesh, Uttarakhand, Arunachal Pradesh, Assam & Meghalaya, Bihar, West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam and Coastal & South Interior Karnataka.

- Significant amount of Rainfall (from 0830 hrs IST of yesterday to 0830 hours IST of today)(more than 1 cm): Kerala & Mahe: Malappuram-12; Kottayam and Ernakulam-8 each; Cannur and Karipur-4 each; Thrissur and Cochin-2 each; Punalur-1; Tamilnadu, Puducherry & Karaikal: Toothukudi-17; Coonoor and Madurai-2 each; Coimbatore, Palayankottai and Tondi-1 each; Odisha- Paradip5; Chandbali-2; Lakshadweep: Agathi, Aminidivi and Minicoy Island-1 each; Andaman & Nicobar Islands: Hut Bay-2.
- Heavy Rainfall (from 0830 hrs IST of yesterday to 0830 hours IST of today): Heavy to very heavy rainfall recorded at isolated places over Tamilnadu and Kerala.
- Thunderstorm observed (from 0830 hrs IST of yesterday to 0830 hours IST of today): at a few places over Tamilnadu, Puducherry & Karaikal, Andaman & Nicobar Islands, Kerala & Mahe and at isolated places over Lakshadweep.
- Maximum Temperature Departures as on 27-10-2021: Maximum temperatures were above normal (1.6°C to 3.0°C) at many places over Assam & Meghalaya, Arunachal Pradesh, Coastal Andhra Pradesh & Yanam and Coastal Karnataka; at a few places over Tamilnadu, Puducherry & Karaikal and Andaman & Nicobar islands. They were appreciably below normal (-3.1°C to -5.0°C) at many places over Haryana, Chandigarh & Delhi, West Rajasthan and West Madhya Pradesh; at a few places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, East Rajasthan and Uttar Pradesh; at isolated places over East Madhya Pradesh; below normal (-1.6°C to -3.0°C) at most places over Punjab; at isolated places over Gujarat state and near normal at rest parts of the country. Yesterday, the maximum temperature 36.0°C is reported at Bhuj (Saurashtra & Kutch) & Ratnagiri (Konkan & Goa).
- Minimum Temperature Departures as on 28-10-2021: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at a few places over Andaman & Nicobar Islands and West Rajasthan; at isolated places over Gangetic West Bengal and Saurashtra & Kutch; above normal (1.6°C to 3.0°C) at many places over Nagaland, Manipur, Mizoram & Tripura, Odisha and Jharkhand; at a few places over Gujarat region, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal; at isolated places over Punjab, Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya. They are below normal (-1.6°C to -3.0°C) at many places over Coastal & North Interior Karnataka; at a few places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Himachal Pradesh; at isolated places over East Rajasthan, East Uttar Pradesh, Madhya Pradesh and Konkan & Goa and near normal over rest parts of the country. Today, the lowest minimum temperature of 11.3°C is reported at Sikar (East Rajasthan) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 28 October (Day 1): Heavy rainfall at a few places with very heavy falls at isolated places very likely over Tamilnadu, Puducherry & Karaikal and Heavy rainfall at isolated places over Coastal Andhra Pradesh & Yanam and Kerala & Mahe.

Thunderstorm accompanied with lightning very likely at isolated places over Coastal Andhra Pradesh & Yanam, Lakshadweep, 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 2): Heavy rainfall at a few places with very heavy falls at isolated places very likely over Tamilnadu, Puducherry & Karaikal; Heavy to very heavy rainfall at isolated places over Coastal Andhra Pradesh & Yanam and Kerala & Mahe and heavy rainfall at isolated places over Rayalaseema.

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 3): Heavy to very heavy rainfall at isolated places very likely over Tamilnadu, Puducherry & Karaikal and Heavy rainfall likely at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema and Kerala & Mahe.

Thunderstorm accompanied with lightning 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) 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 4): Heavy to very heavy rainfall at isolated places likely over Tamilnadu, Puducherry & Karaikal and 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, 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.

- 01 November (Day 5): Heavy rainfall at isolated places likely over Tamilnadu, Puducherry & Karaikal.

Thunderstorm accompanied with lightning likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Rayalaseema, 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)

JAMMU

Weather condition:

Both maximum and minimum temperatures remained above normal by 1 to 4 °C and was recorded in the range of 31 to 35.2 °C and 16.2 to 21.0 °C. The morning and evening relative humidity were observed between 65 to 98 % and 35 to 65 %, respectively. The total evaporation during this week was observed 41.8 mm and bright sunshine in the range of 2.9 to 9.5 hrs per day.

Contingency measure:

- Paddy Semi-fine/ Basmati Early sown/ Basmati which is late sown - physiological maturity indices is hard dough, shift the threshed crops immediately to safer places and postpone harvesting due to chances of rainfall, if not harvested yet. Drain out irrigation/ rain water where the grains turn golden in colour. Postpone irrigation in late transplanted crop due to chances of rain.
- In Maize harvested crop to be shifted immediately to safer places due to chances of rainfall. Clean and disinfect stores.
- In oilseed like Mustard (Irrigated)/ Toria sowing vegetative (Irrigated) postpone sowing till weather is clear. Thereafter sowing is recommended at optimum soil moisture. Postpone application of split dose of Nitrogen till weather gets clear.
- In Rabi pulses like Chickpea/ Pea/ Lentil the Land preparation is done avoid sowing due to chances of rainfall.
- In Fodder crops like Berseem which done under irrigation avoid sowing due to chances of rainfall, postpone it till weather gets clear.
- In flowering plants like Chrysanthemum, Marigold rooted cutting is done vegetative give first pinching followed by hoeing of field post rainfall.
- First pinching is recommended in Vegetables crops like turmeric, Cabbage, cauliflower, knol khol, broccoli, Radish, carrot, Kale, Coriander, fenugreek and spinach.
- In potato if vegetative transplanting, sowing, is to be done avoid it as they are chances of rain water to get stagnated in fields.
- Horticulture Mango, Guava, Citrus young bearing postpone application of chemical plant protection measures till weather gets clear. Keep the field area clean. Remove the congress grass from the orchard field of bunds of the field. Remove tying materials from bud/graft unions. Remove dead and dried wood from mango trees.
- Oyster Mushroom, button mushroom fruiting compost preparation. As the humidity will be in required limits for the growth of mushroom. So, avoid

spraying of water in cropping rooms, sterilize the cropping room and book the spawn from a reliable laboratory. Maintain temperature +20°C in the cropping room. Spray malathion 0.01% and chlorothalonil 0.05% at weekly intervals for insect pest control. Compost preparation may be started in the plains of Jammu.

- In Sericulture practices Mulberry Cocoon crop tree plantation chawki / late age rearing individual leaf plucking for feeding of silkworms should be resorted without damaging the branches/ twigs of the mulberry tree. Proper care should be taken during moulting. Windows of the rearing rooms should be kept open for allowing proper ventilation.
- In Apiculture practices to protect the bees from rain by reducing the entrance of boxes. Prepare colonies for upcoming winter season.
- Poultry there should be a good source of light and heat. Proper hygiene and ventilation should be maintained. There should not be hurdling of chicks, maintain the temperature of 37°C. Vaccinate the chicks against infectious bursal disease (IBD, Gumbroo) disease. Deworm the birds.
- Dairy animals, Sheeps and Goats Deworming of all livestock needs to be done against helminths using fenbendazole or closantel. Calcium should be supplemented in the diet of dairy animal as rice straw feeding leads to depletion of Ca levels in the blood thereby reduces milk yield and general health condition.
- In Fisheries fingerling/advanced fingerlings add regular supplementary food on daily basis @ 2-3% of total fish biomass (estimated) present in the pond. Keeping the water by applying lime @ 20-25kg /ha/month and manure @ 1000kg/ha.

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

28-10-2021/(0800 to 0826) GMT
28-10-2021/(1330 to 1356) IST

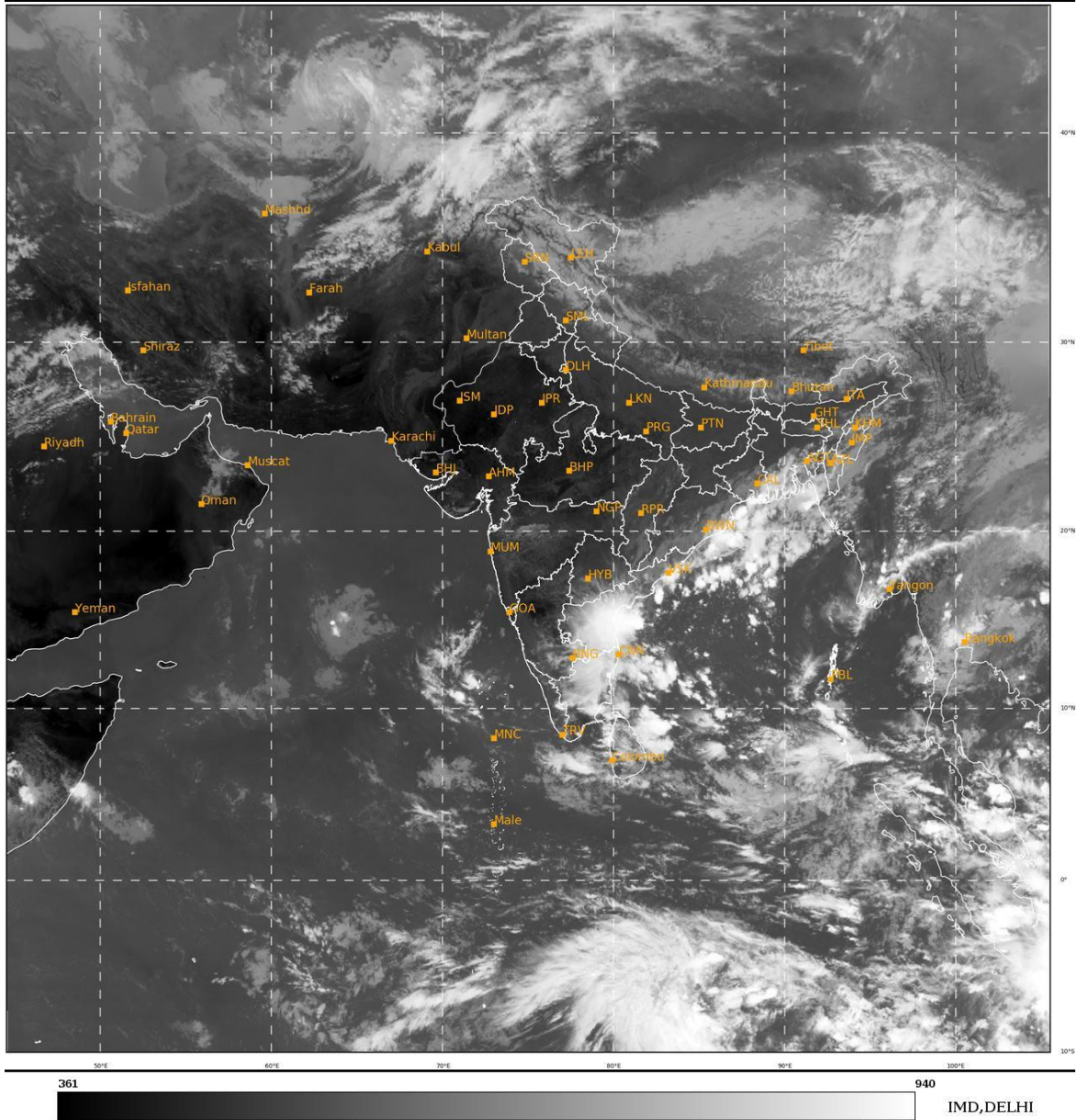


Figure: 1. Latest available satellite picture as on 28 Oct 2021 at 1330 Hrs (IST).
(Source: IMD).

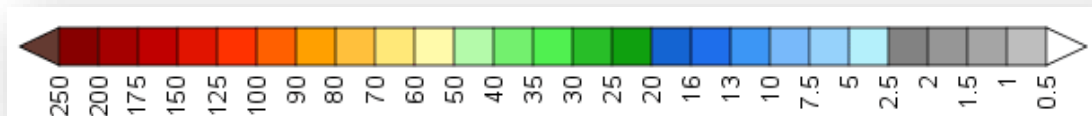
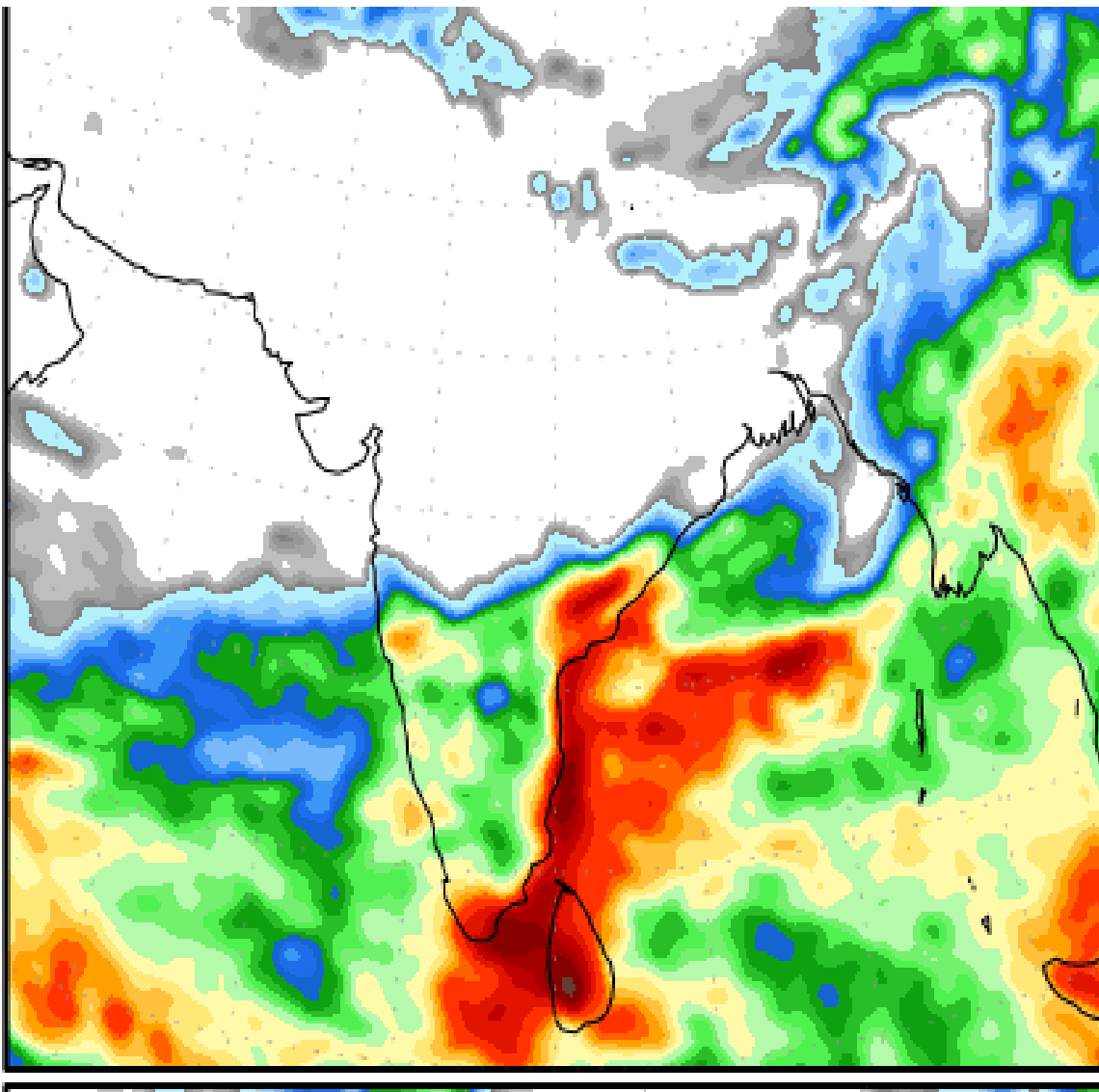


Figure:2. Precipitation forecast for 28Oct to 05 nov 2021 (Source: NOAA NCEP).

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.