

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 28 October 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- In view of significant reduction in rainfall activity over most parts of the country the Southwest monsoon has withdrawn from the entire country today the 28th October 2020.
- Simultaneously with the setting in of northeasterly winds in the lower tropospheric levels, the northeast monsoon rains has commenced over extreme south peninsular India today the 28th October 2020.
- A cyclonic circulation lies over Southwest Bay of Bengal off north Tamil Nadu coast in lower & mid tropospheric levels.
- Under its influence, scattered rainfall with moderate thunderstorm & lightning very likely over Kerala & Mahe and Tamil Nadu & Puducherry during next 5 days with isolated heavy falls over south Tamil Nadu during next 2 days and over south Kerala during next 24 hours.
- Dry weather expected over rest of the country during next 4 to 5 days.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rain/Thundershowers observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at a few places over Andaman & Nicobar Islands; at isolated places over Assam & Meghalaya, Konkan & Goa, Madhya Maharashtra, Rayalaseema, Coastal Andhra Pradesh & Yanam, South Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over North Interior Karnataka and Kerala & Mahe.
- Maximum Temperature Departures as on 27-10-2020: Maximum temperatures were above normal (1.6°C to 3.0°C) at many places over Himachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Odisha, Jharkhand, East Madhya Pradesh and Vidarbha; at a few places over Coastal Andhra Pradesh & Yanam, Sub-Himalayan West Bengal & Sikkim, West Madhya Pradesh, Arunachal Pradesh, Uttarakhand, Saurashtra & Kutch and Tamil Nadu, Puducherry &

Karaikal and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Punjab, Assam & Meghalaya, Telangana, Gujarat Region, Marathawada, South Interior Karnataka, Kerala & Mahe, Gangetic West Bengal and Chhattisgarh . They were below normal (-1.6°C to -3.0°C) at isolated places over Haryana, Chandigarh & Delhi, Madhya Maharashtra, Konkan & Goa and Rajasthan and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 36.8°C was reported at Diu (Saurashtra & Kutch).

- Minimum Temperature Departures as on 28-10-2020: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at most places over Nagaland, Manipur, Mizoram Tripura; at a few places over Arunachal Pradesh and Assam & Meghalaya; above normal (1.6°C to 3.0°C) at many places over sub-Himalayan West Bengal & Sikkim and Coastal Andhra Pradesh & Yanam; at a few places over East Madhya Pradesh, West Rajasthan, Madhya Maharashtra, Telangana, Lakshadweep and Tamil Nadu, Puducherry & Karaikal and at isolated places over Andaman & Nicobar Islands, Bihar, West Madhya Pradesh, East Rajasthan, Saurashtra & Kutch and Kerala & Mahe. They are below normal (-1.6°C to -3.0°C) at most places over Haryana, Chandigarh & Delhi; at many places over Punjab and Uttar Pradesh; at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand and Odisha and at isolated places over Gangetic West Bengal, Chhattisgarh, Jharkhand, Marathawada and South Interior Karnataka and near normal over rest parts of the country. The lowest minimum temperature of 10.8°C reported at Churu (West Rajasthan) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 28 October (Day 1): Heavy rainfall very likely at isolated places over south Kerala & Mahe and south Tamil Nadu, Puducherry & Karaikal. Thunderstorm with lightning very likely at isolated places over Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.
- 29 October (Day 2): Heavy rainfall very likely at isolated places over south Tamil Nadu, Puducherry & Karaikal. Thunderstorm with lightning very likely at isolated places over Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.
- 30 October (Day 3): Thunderstorm with lightning likely at isolated places over Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.
- 31 October (Day 4): Thunderstorm with lightning likely at isolated places over Nagaland, Manipur, Mizoram & Tripura, South Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.

- 01 November (Day 5): Heavy rainfall likely at isolated places over Kerala & Mahe. Thunderstorm with lightning likely at isolated places over Nagaland, Manipur, Mizoram & Tripura, South Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.
- The weather outlook for seven days i.e., 28 October to 05 November 2020 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)

Himachal Pradesh

Weather condition:

The maximum temperature ranged between 24.0 to 25.5 °C which was above normal by 1.2 to 2.3 °C and minimum temperature ranged between 8.0 to 10.5 °C which was below normal by 2.1 to 4.4 °C. No rainfall was received during the week against the normal of 2.4 mm. The relative humidity varied between 25-79% and sunshine hours between 9.0-10.0 hrs/day with variable sky conditions (Octa 0-2). The evaporation rate varied 2.8-3.2 mm per day.

Contingency measure:

- KHARIF CROPS; RICE & MAIZE: Keeping in mind the weather, farmers are advised that the paddy is ready for harvesting. After harvesting crop should be dried in the field for 2-3 days and thereafter threshing should be done. Thoroughly dry and store at the proper grain moisture (12%) to avoid the weevils.
- PULSE: Soybeans Rongi, Mung, Mash and Kulti crops are ready for harvest and dry the seeds in sunlight to 12% moisture before storage. Sowing of gram and lentil should be completed in lower areas.
- TORIA: Field preparation should be started for early mustard sowing.
- WHEAT: Decomposed FYM or compost before sowing of crops and vegetable as it improves the physical and biological properties of soil and thus increases the water retention capacity as well as nutrient status of the soil. Farmers are advised to do arrangement for quality seeds. Make preparations for early wheat sowing in lower regions .Early sown varieties of Wheat can be sown during first fortnight of October. For getting optimum yield, a seed rate of 100 kg/ha is recommended. The Seed should be cleaned and graded thoroughly before sowing. Shriveled & small wheat grains and weed seeds should be removed.
- FODDER CROPS: Sowing berseem, lucerne and oats for fodder of Rabi season also advised. Mix seed of Gobhi sarson to have nutritious production of fodder during first-cut. The lantana weeds in the grasslands may be cut so that regenerated growth during September can be sprayed with 1% glyphosate for its control.
- VEGETABLE CROPS: In present weather, termites may damage crops and vegetables. Farmers are advised to spray Chlorpyrifos 20 EC @ 4ml/litre of water. Farmers are advised to use light trap to keep a check on pest population. This causes less damage to useful insects. For making a light trap, a bulb should be fixed above a tumbler (either plastic or tin) having a mixture of water and few drops of kerosene oil. The insects get attracted towards the light, fall in the solution and die.

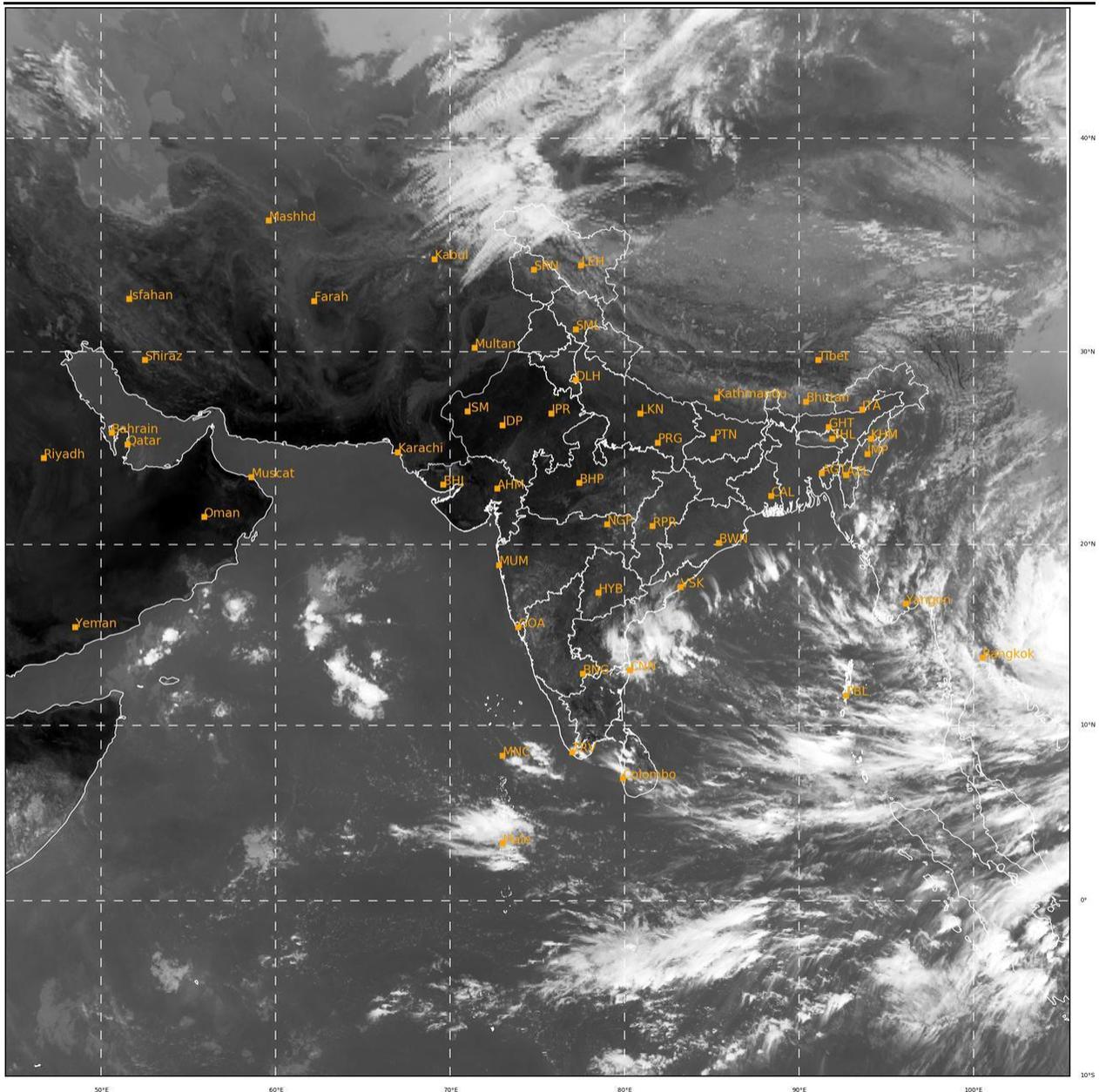
- **TOMATO, CHILLI, CAPSICUM AND BRINJAL:** For shoot and fruit borer in brinjal and tomato crops, infested fruits and shoots should be collected and buried inside the soil. Also install pheromone trap @25 per hectare If pest population is high, spraying of spinosad 48 EC @ 1 ml /4 litres of water is advised when sky is clear. In vegetables (brinjal, cauliflower, cabbage, tomato etc), for monitoring of borer insect, farmers are advised to use pheromone trap @ 3-4/acre. For control spraying of Spinosad 1.0 ml/4 litre of water is advised against fruit borer, diamond back moth weeding and hoeing in all crops and vegetables should be done for optimum growth.
- **CAULIFLOWER AND OTHER VEGETABLES:** Farmers are advised to treat the soil for cut worm before nursery sowing of vegetables. Drench the nursery beds with 2.5 ml chlopyriphos per litre solution. In mid hill region nursery sowing of Chinese cabbage, KnolKhol and fenugreek and direct sowing of, broccoli is advised.
- **RADISH, TURNIP & PEAS:** Field preparation should be started for early pea and farmers are advised to do arrangement for quality seeds. It is optimum time for sowing of early peas in field. Farmers are advised to treat the soil for cut worm before nursery sowing of vegetables. Drench the nursery beds with 2.5 ml chlopyriphos per litre.
- **POTATO:** Advised potato sowing in lower & mid hill regions plain regions of H.P and procure good quality seed.
- **POLY HOUSE AGRICULTURE:** Advised to sow nursery of mid-season cauliflower and cabbage in poly house in mid hills and lower region and advised transplanting of cauliflower Advised tomato, parthenocarpic cucumber and capsicum sowing and transplanting. For control of powdery mildew, aphids and spodoptera spray recommended chemicals. Keep yellow sticky trap in polyhouse and after transplanting drench plant with amidochloropid. Leaf spot/blight is expected in shimla mirch and tomato for control spray tilt 1ml per liters of water.
- **TEA:** Picking in tea at 8-10 days interval to maintain the quality and productivity. Weather is conducive for attack of blister blight in shady and high humid areas, for precautionary measure spray calixin @0.2% or folicure 0.1% and if attack is severe then repeat spray at 15 days with alternate spray of blitox 0.3% at seven days interval. For the control of weeds in tea orchards spray glyphosphate on weeds @2.5 ml per litres of water. It is optimum time for new plantation of tea plants or for infilling of gaps with new plants.
- **LIVESTOCK:** Clean the cowshed with phenylether wise .it causes mastitis disease to animals. Weather is conducive for ticks and mites attack on animals. For control spray Butox @ 2.0 ml per litres of water. Add mineral mixture in dry hay for feeding

to animals in these days. Advised not to allow animals to eat lantana these days. The weather is suitable for the attack of pink eye disease in newly born calves, for control prepare the solution of 1% boric acid in boiled water and wash eyes at regular interval of three hours.

- MUSHROOMS: Maintain room temperature 18-22°C for successful cultivation of dhingri mushroom. For control fungal diseases spray 0.5 percent bavistin.
- HORTICULTURE: Keep the basins of the plants free from weeds. In peach gum is coming out from tree trunk, for control bordeaux paint may be applied in the affected area. Ensuing weather is conducive for the attack of leaf minor in new growth of citrus. For its control, spray 10 ml Matasystox or Malathion 10 ml in 10 litre of water. The new growth appearing below bud union of newly budded plants may be cut. For control citrus canker, spray malathion 10 ml or metasystox 10 ml per 10 l water. Advised recommended spray of chemicals. Advised planting of strawberry.
- FLORICULTURE: Transplanting of Chrysanthemum, marigold and operations of rose should be done in present weather conditions.

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

28-10-2020/(0800 to 0827) GMT
28-10-2020/(1330 to 1357) IST



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922

IMD, DELHI

Figure: 1. Latest available satellite picture as on 28 October 2020 at 1357 Hrs (IST). (Source: IMD).

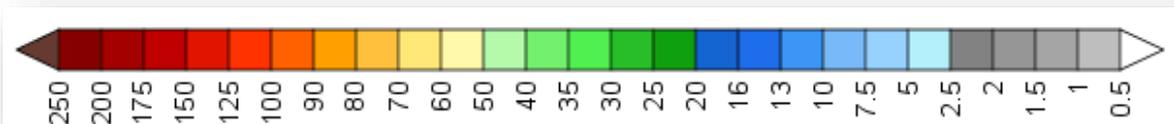
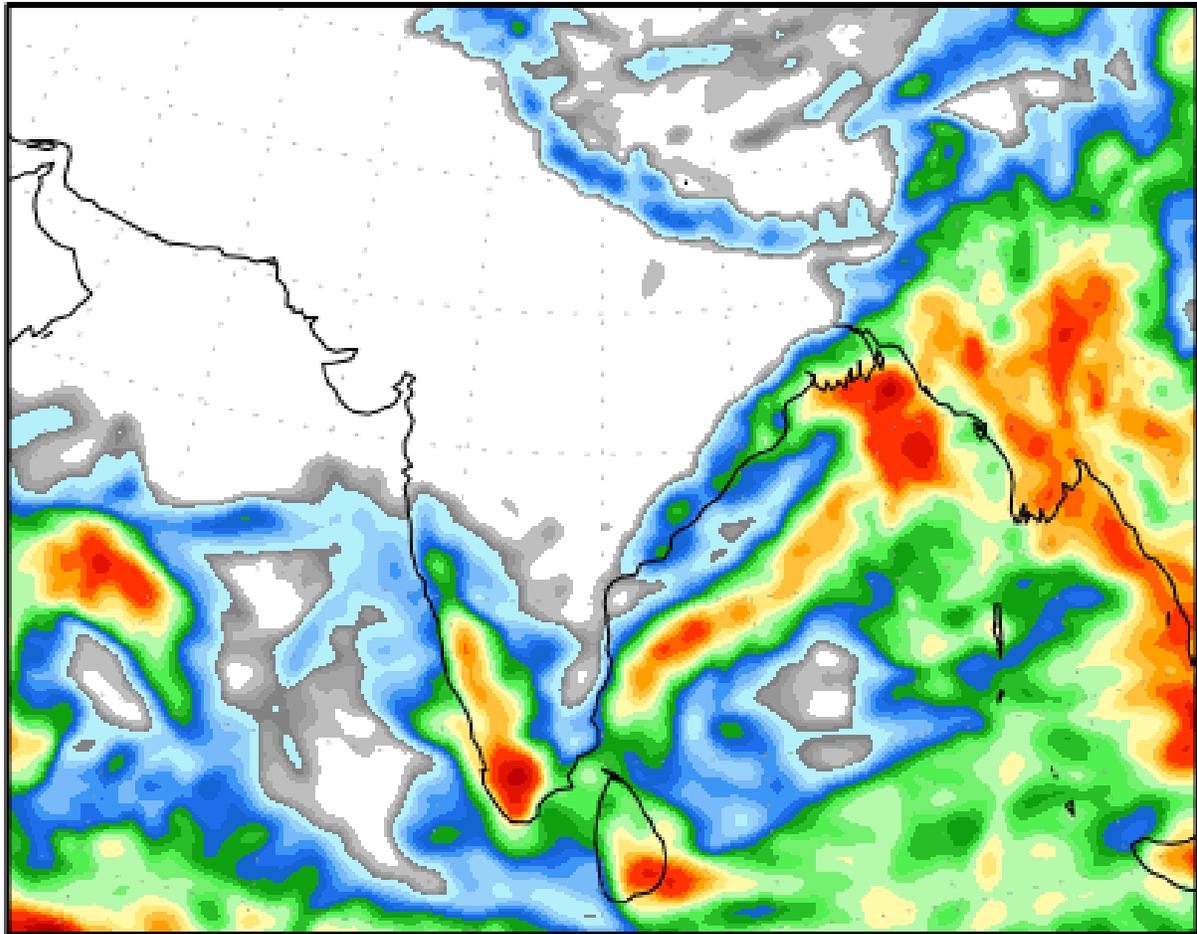


Figure:2. Precipitation forecast for 28 Oct to 05 Nov 2020 (Source: NOAA NCEP).

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