

All India Coordinated Research Project on Agrometeorology

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Daily Crop Weather Information as on 22 November 2018

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Significant Weather Features (IMD)

- A low pressure area lies over interior Tamilnadu and neighbourhood. Under its influence, fairly widespread to widespread rain with isolated heavy to very heavy falls very likely over Tamilnadu and south Rayalaseema and isolated heavy over South Coastal Andhra Pradesh and South Interior Karnataka during next 24 hours and isolated heavy over Tamilnadu and Kerala during subsequent 24 hours.
- A Western Disturbance as a trough in mid-tropospheric westerlies runs roughly along Long. 64° E to north of 30° N. Under the influence of this Western disturbance isolated to scattered precipitation very likely over western Himalayan region during next 24 hours. Due to change of wind pattern over parts of northwest India, the minimum temperatures very likely to fall by 2-3° C over parts of northwest India from 24th onwards.
- Moderate Fog observed at isolated places over Punjab, East Uttar Pradesh and Assam & Meghalaya. Visibility: Gorakhpur- 200; Lucknow, Varanasi, Ludhiana & Guwahati- 500 M each at 0830 hour IST of today.
- The images showing the latest satellite picture in figure. 1.

Main Weather Observations (IMD)

- Rainfall observed (from 0830 hours IST of yesterday to 0830 hours IST of today): Rain/thundershowers observed at many places over Tamilnadu & Puducherry; at isolated places over south Madhya Maharashtra, south Konkan & Goa, Coastal Andhra Pradesh, Rayalaseema, South Interior Karnataka, Kerala and Andaman & Nicobar. Heavy rainfall observed at isolated places over north Tamilnadu & Puducherry during past 24 hours ending at 0830 hours IST of today.
- Maximum temperature departures as on 21-11-2018: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Saurashtra & Kutch; at isolated places over Madhya Pradesh, Vidarbha, Odisha and Telangana and above normal (1.6°C to 3.0°C) at most places over Madhya Pradesh and Marathwada; at many places over Jharkhand, South Interior & Coastal Karnataka,

Madhya Maharashtra and Vidarbha; at a few places over Gujarat region, Telangana and Kerala; at isolated places over Himachal Pradesh, Punjab, Saurashtra & Kutch, Gangetic West Bengal, Odisha, Coastal Andhra Pradesh and Tamilnadu. They were below normal (-1.6°C to -3.0°C) at a few places over Bihar and at isolated places over Assam & Meghalaya, Gangetic West Bengal and Tamilnadu.

- The highest maximum temperature of 37.0°C recorded at Bhuj (Saurashtra & Kutch) over the plains of the country.
- Minimum temperature departures as on 22-11-2018: Minimum temperatures are markedly above normal (5.1°C or more) at isolated places over West Madhya Pradesh; appreciable above normal (3.1°C to 5.0°C) at most places over Gujarat region; at a few places over Rajasthan; at isolated places over Saurashtra & Kutch; above normal (1.6°C to 3.0°C) at most places over Madhya Maharashtra and Konkan & Goa; at a few places over Punjab, Uttarakhand, Marathwada, Rayalaseema and Telangana; at isolated places over East Madhya Pradesh, Coastal Odisha, Coastal Andhra Pradesh and Kerala and near normal over rest of the country.
- The lowest minimum temperature of 7.6°C recorded at Mandla (East Madhya Pradesh) over the plains of the country.

Weather Warning during next 5 days (IMD)

- 22 November (Day 1): Heavy to very heavy rain at isolated places very likely over south Rayalaseema and Tamilnadu & Puducherry and heavy at isolated places over south Coastal Andhra Pradesh and South Interior Karnataka.
- 23 November (Day 2): Heavy rain at isolated places very likely over Tamilnadu & Puducherry and Kerala.
- 24 November (Day 3): No weather warning.
- 25 November (Day 4): No weather warning.
- 26 November (Day 5): No weather warning.
- The weather outlook for the period of seven days *i.e* 22 to 29 November 2018 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thundershower may occur at a few places over south Madhya Maharashtra, south Konkan & Goa, Coastal Andhra Pradesh, Rayalaseema, South Interior Karnataka, Kerala, Tamilnadu & Puducherry and Andaman & Nicobar Islands. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Jammu & Kashmir

Weather condition

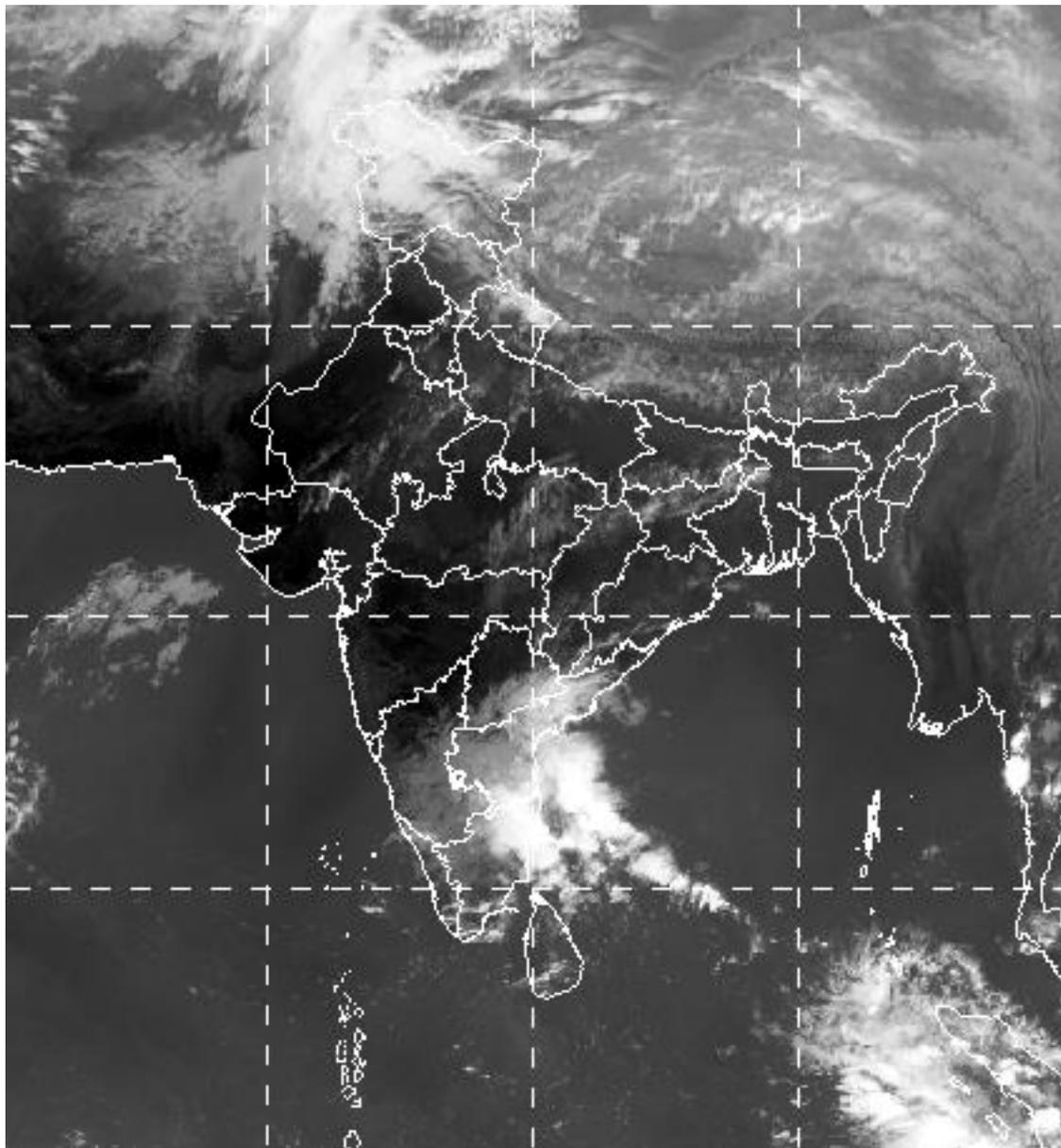
Mainly cloudy to clear weather prevailed in Jammu region of Jammu & Kashmir state during past few days. The maximum temperature remained below normal by 2.0 to 6.0 °C and was in the range of 20.6 to 26.4 °C. The minimum temperature also remained below normal by 1.0 to 2.0°C , and was in the range of 9.0 to 11.6 °C.

Contingency measure:

- Wheat: Due to the presence of sufficient moisture in the soil. Farmers are advised to continue the sowing of wheat variety (PBW-396, PBW-175 and RSP-81 (jitto) for rainfed areas and PBW-550, DBW-17, Raj-3077, RSP-303, WH-542, PBW-502, HD-2687 under irrigated area with seed rate 100kg/ha. But before sowing treat the seed with vitavax or bavistin or agrozim @ 2g/kg of seed in order to avoid the crop from seed borne disease. Apply recommended dose of fertilizer as basal dose in rainfed and irrigate conditions.
- Fine Rice: Sundry grains after threshing in the open to reduce moisture in the grains to safe limits (10-12%) for storage. Clean the godowns properly by removing all the grains and other debris of previously stored crop. Rabi pulses :Hoeing & weeding is recommended in chickpea to conserve soil moisture.
- Sowing of Pea (var. AP-1, Bonnevillea, Rachna and Arkel) may be completed in rainfed areas and taken up to 25 November in irrigated areas. Sowing of Lentil (var.: L-4147, L-9/12, PL-406), must be continued in irrigated and rainfed areas during clear weather. Treat the seed with fungicides (Captan or Thiram) @ 2.0 gm/kg of seed as well as with crop-specific Rhizobium culture.
- Oilseed: Due to sufficient moisture in soil, apply 1st dose of urea. Sowing of late sown mustard crop var. Kranti can be taken up in irrigated areas whereas under rainfed areas sowing of RSPR-03 can be carried due to sufficient soil moisture. Thinning is recommended in 10-12 days crop and weeding is recommended in 20-25 days old crop. Install delta sticky traps (5/kanal), if aphid is observed in crop.
- Floriculture: Take care that plant roots are not injured in any way while weeding. Remove the stock sprout, suckers and water sprout from budded/grafted plants. Spray bavistin or DM-45 @ 1gm/lt or 2gm/lt respectively to keep away fungal diseases. Hoeing & Staking is recommended. Disbudding in standard cultivar is

recommended. Pruning is recommended to remove old flowering shoots so as to enhance the growth of new shoots. Pinching in November transplanted crop is recommended. Postpone irrigation due to sufficient moisture in soil. Planting of corms in the field is recommended.

- Vegetables: Postpone irrigation due to chances of rain. Use sticky traps (5/kanal) and pheromone trap (1/kanal) for monitoring/ mass trapping of insect pest. Drenching of Carbendazim @ 0.1% for managing damping off in vegetables is recommended. Apply Nuvan @ 1ml/lit of water to avoid the attack of cabbage caterpillar/leaf eating caterpillars. Weeding & hoeing is recommended. Apply urea @ 1kg/kanal as top dressing Use healthy & disease free seeds.
- Horticulture: Give light spray of Urea to weak and pale plants. Remove the water suckers and keep the area clean. Remove the tying material from bud/graft union. Cultivate land between plants to loosen soil and kill different insect pests. Sericulture: Cocoons should be stifled properly and stored in muslin bags, kept in well ventilated rooms to avoid any dermestid and rodent attacks.
- Button mushroom: Maintain 85%-90% relative humidity and temperature 16 0C to 18 0C in the cropping room. Provide proper ventilation in the cropping room. Maintain proper hygienic conditions in and around growing rooms. Spray chlorothalonil 0.05% if any competitor mould is observed. Maintain strict vigilance.
- Poultry: There should be a good source of light and heat in poultry houses. Proper hygiene should be maintained. Well-insulated windows can act as a sun trap during winters.
- Apiculture: Give artificial sugar feeding in the ratio of 2:1. Migrate colonies to areas having floral resources (near toria/vegetable crops). Spray chloropyriphos around boxes of apiary for protection from termites or put the leg of these beehives stand in water pot.
- Live stock: Supplement concentrates in the diet of sheep and goat in order to acclimatize to cold condition. 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. Deworming of all livestock needs to be done against helminths using fenbendazole or closantel.
- Fisheries: In case of appearance of algal bloom in the fish pond, farmers should not further add any manure/fertilizer/feed for some days. Remove algal bloom by the addition of fresh water in to the fish pond. Apply regular supplementary feed on daily basis @ 2-3% of estimated total fish biomass in the pond.



**Figure: 1. Latest available satellite picture as on 22 November 2018 at 0230 Hrs (IST).
(Source: IMD).**

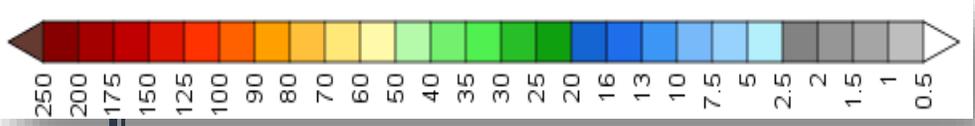
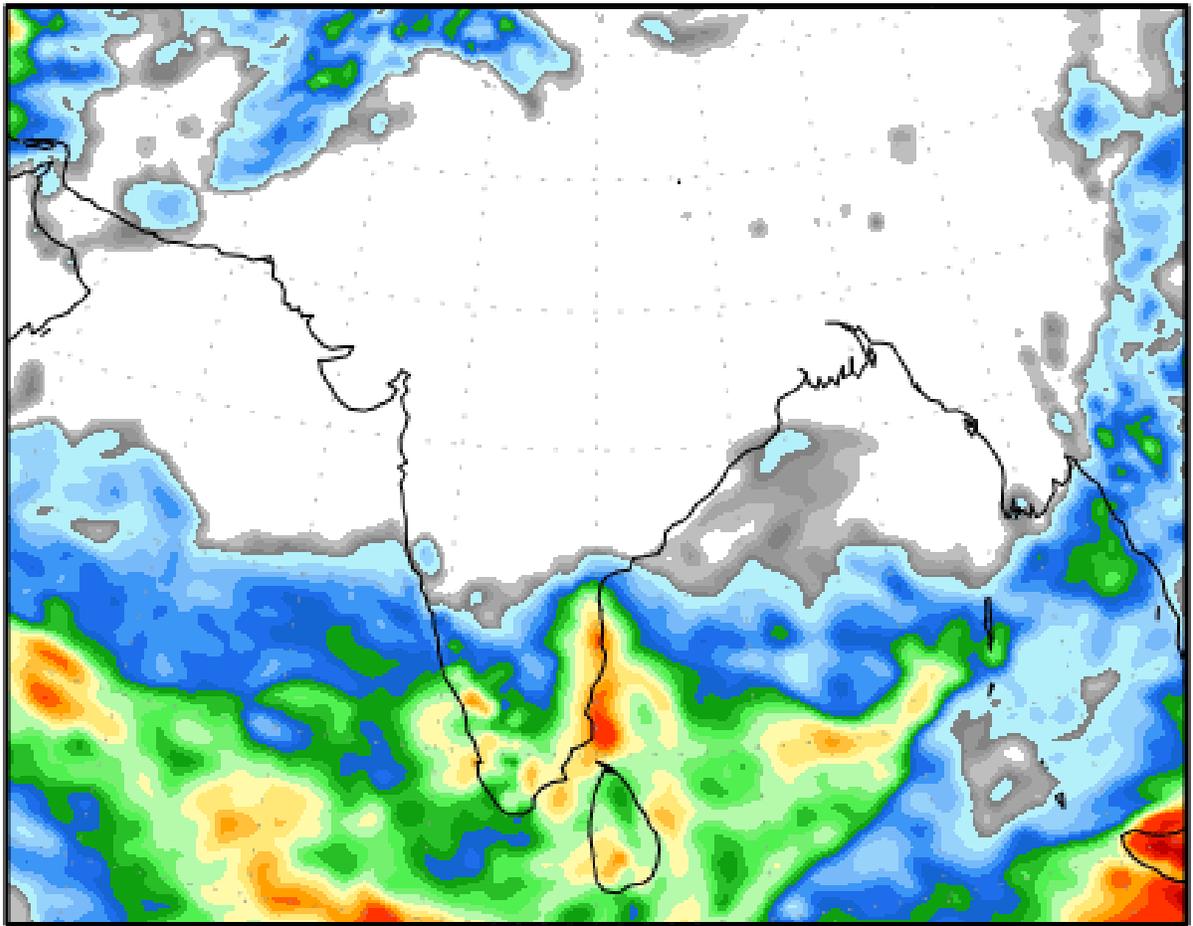


Figure: 2. Precipitation forecast for 22 to 29 November 2018 (Source: NOAA NCEP).