

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

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

### **Daily Crop Weather Information as on 30 November 2018**

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

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

- A feeble trough of low is likely to cause scattered to fairly widespread rainfall over Andaman & Nicobar Islands during next 48 hours. Fresh easterly wave activity is likely to commence from 3rd December and enhance the rainfall over Tamilnadu & Puducherry from 4th December.
- Squally weather is likely to prevail over southeast Arabian Sea and adjoining Equatorial Indian Ocean. Fishermen are advised not to venture into these areas during next 24 hours.
- No significant change in minimum temperatures are likely over major parts of the country during next 3-4 days.
- Shallow to moderate fog at a few places with isolated dense fog in the morning hours are likely over northeast India during next 3-4 days and shallow to moderate fog at isolated pockets over parts of northwest India during next 2-3 days.
- Dense fog observed at isolated places over Himachal Pradesh; Moderate fog observed at isolated places over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh and Bihar. visibility; Sundernagar-50 M; Ludhiana & Nazibabad-200 M each; Ambala, Hissar, Delhi (SFD), Agra, Lucknow & Varanasi- 500M each at 0830 hours 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 and at a few places over Kerala, Lakshadweep and Andaman & Nicobar Islands.
- Maximum temperature departures as on 29.11.2018: Maximum temperatures were appreciably

- above normal (3.1°C to 5.0°C) at a few places over Uttarakhand; at isolated places over Jammu & Kashmir, West Madhya Pradesh and Assam & Meghalaya; above normal (1.6°C to 3.0°C) at most places over Saurashtra & Kutch; at many places over Vidarbha and Konkan & Goa; at a few places over Punjab, West Rajasthan, East Madhya Pradesh and West Bengal & Sikkim; at isolated places over Odisha, Marathwada and Coastal Karnataka. They were below normal (-1.6°C to -3.0°C) at a few over Tamilnadu & Puducherry and near normal over rest parts of the country.
- The highest maximum temperature of 36.0°C recorded at Karwar (Coastal Karnataka) over the plains of the country.
- Minimum temperature departures as on 30.11.2018: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at a few places over West Rajasthan; at isolated places over Bihar & Gangetic West Bengal; above normal (1.6°C to 3.0°C) at most places over Uttarakhand; at many places over Uttar Pradesh; at a few places over Punjab, West Madhya Pradesh and Jharkhand; at isolated places over East Madhya Pradesh, Saurashtra & Kutch, Coastal Karnataka, Kerala, Tamilnadu & Puducherry, South Interior Karnataka and Andaman & Nicobar Islands. They are below normal (-1.6°C to -3.0°C) at a few places over Vidarbha, Madhya Maharashtra and Marathwada; at isolated places over Telangana, Odisha and Assam & Meghalaya and near normal over rest of the country.
- The lowest minimum temperature of 6.2°C recorded at Amritsar ( Punjab) over the plains of the country.

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

- 30 November (Day 1): Squally weather is likely to prevail over southeast Arabian Sea and adjoining Equatorial Indian Ocean. Fishermen are advised not to venture into these areas. Dense fog at isolated places very likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura in the morning hours.
- 01 December (Day 2): Dense fog at isolated places very likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura in the morning hours.
- 02 December (Day 3): No weather warning.
- 03 December (Day 4): No weather warning.
- 04 December (Day 5): Heavy rain likely at isolated places over south coastal Andhra Pradesh and north Coastal Tamilnadu.
- The weather outlook for the period of seven days *i.e* 30 November to 07 December 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

Kerala, Tamilnadu & Puducherry, Lakshadweep and Andaman & Nicobar Islands. (Fig. 2).

## **Agricultural activities (AICRPAM-CRIDA)**

### **Bihar**

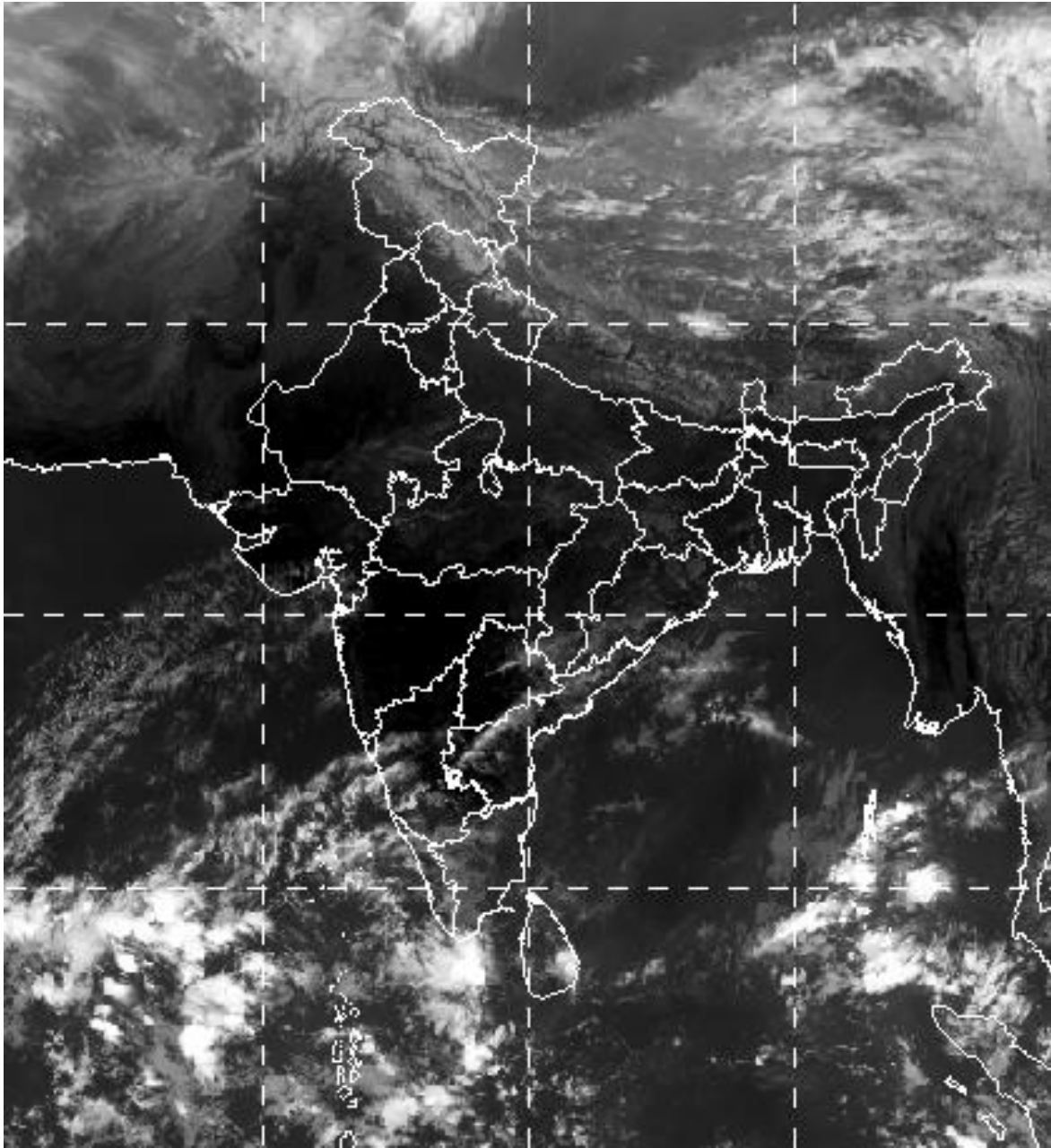
#### **Weather condition**

. Dry weather prevailed in Bihar state during past few days. Maximum temperature ranged from 27.5 to 28.2°C and minimum temperature ranged from 11.0 to 12.0°C.

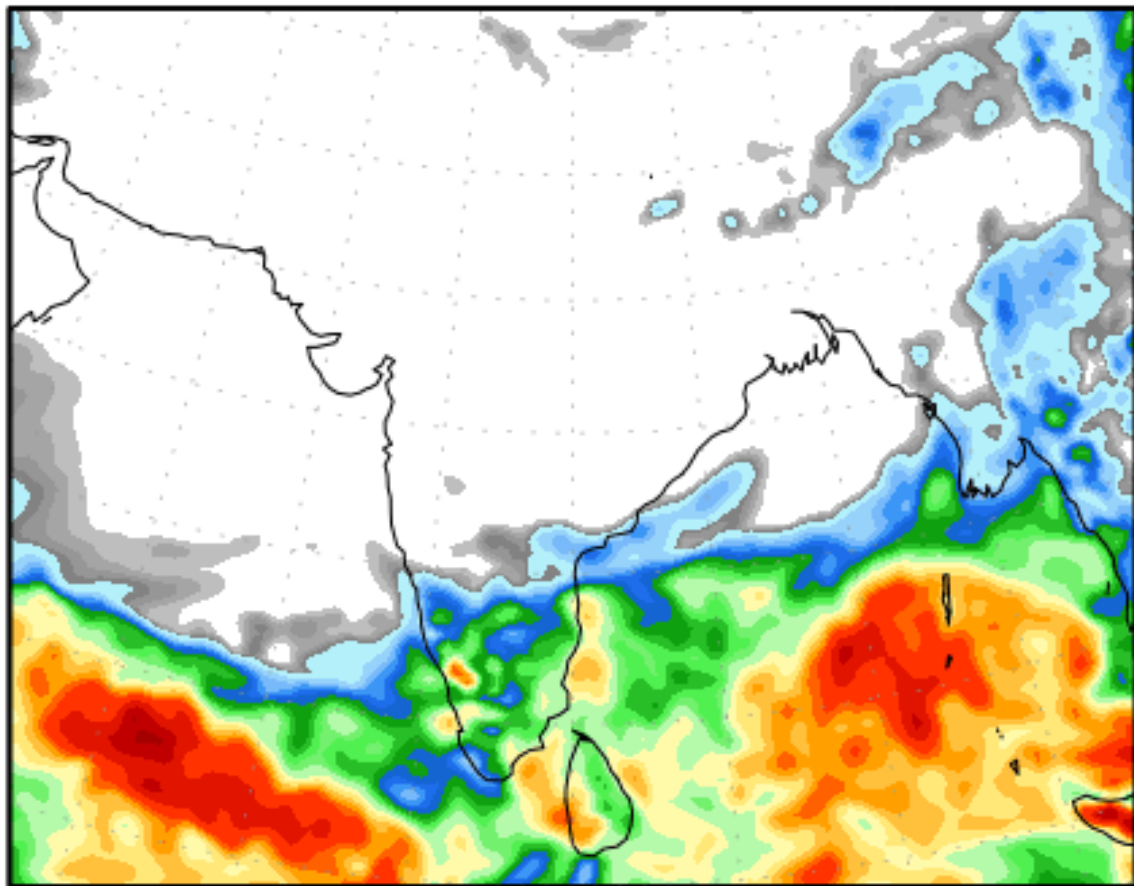
#### **Contingency measure:**

- Potato: Complete the planting of Potato at the earliest. Kufriyoti, Kufriashoka, Kufriachandramukhi, Kufribadhsha, Kufirilalima, Kufriinduri, Kufriarun, Kufrianand, Kufripusker, Rajendraalu, Rajendraalu and Rajendraalu varieties of potato are recommended for planting in north Bihar region. Seed rate@20-25q/ha and planting distance of 50-60cm X15-20cm is advised. Application of 20-25 ton FYM/ha, 75 kg nitrogen, 90 kg phosphorus and 100kg potash is advised during land preparation. Seed treatment with Emission-6@0.5% or Di-Ethane M-45@0.2% is advised for 10 minutes before planting. Planting of whole tuber (20-40 grams) is advised.
- Wheat: Farmers are advised to give priority in sowing of wheat crop. PBW-343, PBW-443, K-9107, HD-2733, HD-2824, HD-2967, HUW-206, HUW-468, K-307, CBW-38, DBW-39 varieties of wheat are recommended for timely sowing under irrigated condition. Application of 15-20 ton FYM manures, 60 kg nitrogen, 60 kg phosphorus and 40 kg potash per hectare is advised before sowing. Seeds should be treated with Carbendazim @ 2.0 g per kilogram of seed. For broadcasting method, seed rate @ 125kg per hectare is advised and 100 kg per hectare is recommended for seed drill method. Deep sowing of seeds is not advisable.
- Gram: Present weather is suitable for sowing of gram. Pusa-256, KPG-59 (Udai), KWR-108, pant G-186 and Pusa-372 varieties of gram are recommended for sowing in north Bihar region. Seeds should be treated with Vitavax@2.0gm/kg. To protect against kajra caterpillar (cut worm), seeds should be treated with chlorpyrifos@8ml/kg. Before sowing, treated seeds should be mixed with rhizobium culture (5 packets/hectare) also. Application of 20 kg nitrogen, 45 kg phosphorus, 20 kg potash and 20 kg sulphur per hectare is advised before sowing. Seed rate@75-80 kg/ha for small size grains and 100 kg/hectare for large size grains with planting distance of 30cm X 10cm is advised.

- Rai: Complete the sowing of late variety of rai such as Rajendraraipicheti (RAURD-9403), Rajendraanukul (RAURD-1002) and Rajendrasuflam (RAURDL-02-01) till the end of November. Weeding is advised in 20-25 days old rai crop. Plant to plant spacing should be maintained at 12-15 cm by thinning.
- Rabi Maize: Farmers are advised to complete the sowing of rabi maize by the end of this month. Application of 10-15 ton FYM, 60 kg nitrogen, 75 kg phosphorus 50 kg Potash per hectare during land preparation is advised. Shaktiman-1 white, Shaktiman-2 white, Shaktiman-3 yellow, Shaktiman-4 yellow, Shaktiman-5 yellow, Ganga-11 orange yellow, Rajendrasanker makka-1 Rajendrasanker makka-2, and Rajendrasankermakkadeepjwala varieties of hybrid maize and Deoki white, Lakshmi white and Suwan yellow varieties of composite maize are recommended for sowing in north Bihar. Seed rate @ 20kg/ha is advised. Seeds should be treated with Thiram @ 2.5g /kg of seed.
- Vegetables, garlic and onion nursery: Weeding is advised. Give irrigation as per status of soil moisture. Regular monitoring of insect-pests is also advised.
- Maize, pea, lentil and kidney beans and other crops: Monitoring of cutworm is advised in 15-20 days old maize, pea, lentil and kidney beans crop. They cut the seedlings at the ground level. The caterpillar destroys more number of plants than what they are capable of eating. For management, flooding the field helps in bringing the caterpillars out of cracks when they are picked up by birds. In severe damages, spraying of the crop with chlorpyrifos 20 EC @ 2.5 ml per liter of water is advised.
- Animal care: Low temperature may adversely affect the milk production and performance of domestic animals. Farmers are advised to give protein enriched diet to the animals. Do not keep animal in open at night. Hygiene should be maintained at the place where animals are kept.



**Figure: 1. Latest available satellite picture as on 30 November 2018 at 0230 Hrs (IST).  
(Source: IMD).**



**Figure: 2. Precipitation forecast for 30 November to 07 December 2018 (Source: NOAA NCEP).**