

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

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

### **Daily Crop Weather Information as on 06 December 2018**

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

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

- A trough of low at mean sea level over Southeast Bay of Bengal and adjoining equatorial Indian Ocean extends upto 0.9 km above mean sea level. Under the influence of this trough of low, a low pressure area is likely to develop in the same region around 9th December.
- A western disturbance lies along Long. 62°E to the north of Lat. 32° N and is likely to affect western Himalayan region from 8th December. Associated with the system, dense fog is likely at isolated places over north India on 9th & 10th December.
- No significant change in minimum temperature likely over the Indian region during the next 3 days.
- Moderate fog observed at isolated places over Punjab, Himachal Pradesh, Delhi and Uttar Pradesh. Visibility: Amritsar-200M, Sundernagar, Delhi(PLM), Agra & Lucknow-500M each at 0530 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/Thundershower observed at a few places over Tamilnadu & Puducherry and at isolated places over Andaman & Nicobar Islands, Coastal Andhra Pradesh, Rayalaseema, interior Karnataka and Lakshadweep. Heavy rain occurred at isolated places over Coastal Andhra Pradesh.
- Maximum temperature departures as on 05-12-2018: Maximum temperatures were above normal (1.6°C to 3.1 °C) at most places over Marathawada; at many places over Andaman & Nicobar Islands and Saurashtra & Kutch; at a few places over Madhya Maharashtra, west Rajasthan, Kerala and Tamilnadu & Puducherry; and at isolated places over Telangana, Coastal Andhra Pradesh, Odisha and Assam & Meghalaya. They were below normal (-1.6°C to -3.0°C) at most places over Jammu & Kashmir and Bihar; at a few places over Lakshadweep and West Bengal & Sikkim;

and at isolated places over Uttar Pradesh, Himachal Pradesh, Madhya Pradesh, Haryana, Chandigarh & Delhi.

- Yesterday, the highest maximum temperature of 35.4°C was recorded at Karwar (Coastal Karnataka) over the country.
- Minimum temperature departures as on 06-12-2018: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at most places over Coastal Andhra Pradesh and Telangana; at a few places over Rayalaseema; above normal (1.6°C to 3.0°C) at most places over Vidarbha, Madhya Maharashtra and North Interior Karnataka ; at many places over Nagaland, Manipur, Mizoram & Tripura, West Rajasthan, West Madhya Pradesh, Odisha, Marathawada, Coastal Karnataka and Tamilnadu & Pudducherry; at a few places over Konkan & Goa, South Interior Karnataka and Kerala and at isolated places over Andaman & Nicobar Islands and Assam & Meghalaya. They are below normal (-1.6°C to -3.0°C) at many places over Bihar; at a few places over Saurashtra & Kutch and at isolated places over Jammu & Kashmir, Himachal Pradesh, East Rajasthan, West Bengal & Sikkim, Chhattisgarh and near normal over rest of the country.
- The lowest minimum temperature of 6.2°C recorded at Mandla (East Madhya Pradesh) over the plains of the country.

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

- 06 December (Day 1): Shallow to moderate fog at isolated places is very likely over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Odisha, Bihar, Uttar Pradesh, Haryana, Chandigarh & Delhi, Punjab, Himachal Pradesh and Uttarakhand.
- 07 December (Day 2): Shallow to moderate fog at isolated places is very likely over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Odisha, Bihar, Uttar Pradesh, Haryana, Chandigarh & Delhi, Punjab, Himachal Pradesh and Uttarakhand.
- 08 December (Day 3): Shallow to moderate fog at isolated places is very likely over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Uttar Pradesh, Haryana, Chandigarh & Delhi, Punjab, Himachal Pradesh and Uttarakhand.
- 09 December (Day 4): Heavy rain at isolated places is likely over Andaman & Nicobar Islands. Shallow to moderate fog at a few places with dense fog at isolated places is likely over Uttar Pradesh, Haryana, Chandigarh & Delhi, Punjab, Himachal Pradesh and Uttarakhand. Shallow to moderate fog at isolated places is likely over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura .

- 10 December (Day 5): Heavy rain/snow at isolated places is likely over Jammu & Kashmir. Shallow to moderate fog at a few places with dense fog at isolated places is likely over Uttar Pradesh, Haryana, Chandigarh & Delhi, Punjab, Himachal Pradesh and Uttarakhand. Shallow to moderate fog at isolated places is likely over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura.
- The weather outlook for the period of seven days *i.e* 06 to 13 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 interior Karnataka, Coastal Andhra Pradesh, Rayalaseema, Tamilnadu & Puducherry, Lakshadweep and Andaman & Nicobar Islands. (Fig. 2).

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

### **Himachal Pradesh**

#### **Weather condition**

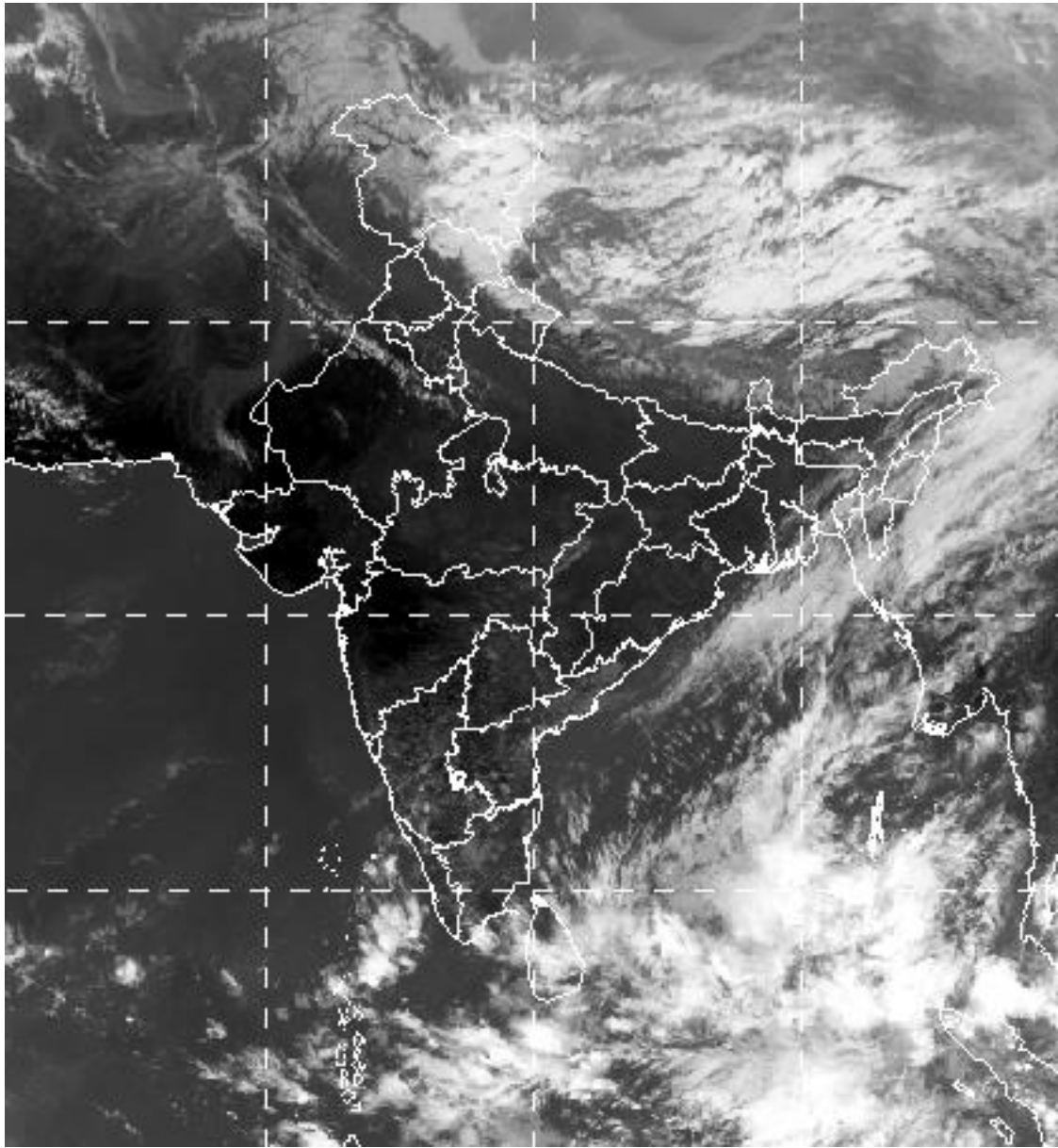
Dry weather prevailed in Himachal Pradesh state during past few days. The maximum temperature ranged between 19.0 to 21.5°C which was above normal by 0.9 to 3.3°C and minimum temperature between 5.5 to 8.5°C which was below normal by 0.8 to 1.7°C.

#### **Contingency measure:**

- Rabi Crops: Late sowing of wheat crop should be completed. Against fungal disease, seed treatment with 2.5 g bavistin or savin / Kg of seed should be done before sowing. Thinning and weeding is recommended in timely sown mustard crop. Monitoring mustard crop against attack of painted bug and aphid is advised. Keeping in view of relative humidity farmers are advised for monitoring of mustard crop against attack of white rust. If infection is high than spraying of Dithane-M-45 @ 2 gram/ litre of water of water is advised. Keeping in view of weather, farmers are advised for monitoring of mustard crop against aphid attack.
- Tomato, Chilli, Capsicum and Brinjal: Weeding and hoeing in all crops and vegetables should be done for optimum growth. 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 present weather conditions, rouging of viral infested crop should be done in chilli. Infected crop should be uprooted and buried in the soil. After rouging, spraying of Imidacloprid @ 0.3 ml per litre of water is advised to control the vector.

- Radish, Turnip & Peas: Direct Sowing of radish, carrot, turnip, spinach, fenugreek, broccoli, lettuce can be done in mid hill areas of the State. In mid hill region nursery sowing of Chinese cabbage. For the control of damping off disease in vegetable crop mix thoroughly Dithane M 45 dust 10-15 g in 1X3metre beds. Advised sowing of pea. Seed should be treated with fungicides, Captan or Thiram @ 2.0 gm/kg and after that with crop-specific Rhizobium culture. A solution of jaggary and water after boiling should be allowed to cool down and then seeds along with Rhizobium should be thoroughly mixed. The mixture should be allowed to dry in a shade. It is highly recommended that the treated seeds should be sown after 24 hours of treatment.
- Cauliflower and Other Vegetables: The downy mildew is expected in cruciferous vegetables, for control spray redomil M-Z @ 25 g per litres of water at 15 days interval. In low hill areas of the State, transplant mid season cauliflower. Cabbage, Knol Khol, Broccoli and Chinese cabbage.
- Potato: Farmers are advised to start earthing-up in potato if crop has attained a height of 15-22 cm. If so required, the practice may be repeated after 15 days. Due to high relative humidity, infection of blight may occur in potato and tomato. Constant monitoring is advised. If symptoms appears than spray of Carbandizam @ 1.0 gm / litre of water or Dithane-M-45 @ 2.0 gm / litre of water is recommended. TEA: Training, skiffing and cleaning work can be completed in the tea. Do lopping of the tree in the tea orchards to have more sunlight. The skiffed material may be used to prepare compost so that it could be applied in next season.
- Horticulture: Wrapping of plastic sheets around mango trunk should be done for preventing climbing of young mealy bugs. Apply grease to seal any cracks in the polythene sheets. If the stem borer problem is there in spray insecticide or control them with applying kerosene oil. Keep the basins of the plants free from weeds. Wrapping of plastic sheets around mango trunk should be done for preventing climbing of young mealy bugs. Apply grease to seal any cracks in the polythene sheets. Irrigation should be done in all orchards. The ensuing weather is conducive for the attack of leaf minor in Citrus. For its control, spray 10 ml Matasystox or Malathion 10 ml in 10 litre of water.
- For the control of Citrus canker spray Streptocycline Sulphate 500 ppm solution. Remove the shoots below the graft or bud unions. Prepare the pits for planting the winter plants like peanut, walnut, almond plum and peach. Prepare the pits for planting the winter plants like peanut, walnut, almond plum and peach. In peach gum is coming out from tree trunk, for control bordeaux paint may be applied in the affected area.

- Mushroom: Dingri can be sown in closed room, maintain temperature of 25-28 degree Celsius and relative humidity of 80-85 % for good crop. Advised to fill compost bags with span for button mushrooms.
- Livestock: Temperature is falling and a cold wave has gripped the area, so protect the newly born calves and animals from cold. Feed pregnant and lactating cows and buffaloes with balance feed including mineral mixture. Also keep the cowshed clean and do not allow the water to stagnate in the cow shed. Provide dry bedding to animals and save them from cold winds. Increase energy contents of concentrate mixture by adding 5-10 per cent more of cereal grains. Feed well-chaffed legumes mixed with wheat-straw in the ratio of 10:1.
- Deworming of calves should be continued against ascaris with piperazine liquid 4ml/10 kg body weight. New-born calves need special care against severe winters as they are susceptible to pneumonia. So keep them warm by providing dry bedding and protection against cold winds. Give them vitamin A concentrate 1ml daily in milk for three days, to be repeated after a month. While feeding animals on dry roughages, provide 40 g mineral mixture to every milk giving cow or buffalo.



**Figure: 1. Latest available satellite picture as on 06 December 2018 at 0230 Hrs (IST).  
(Source: IMD).**

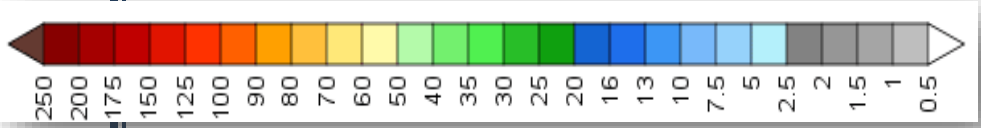
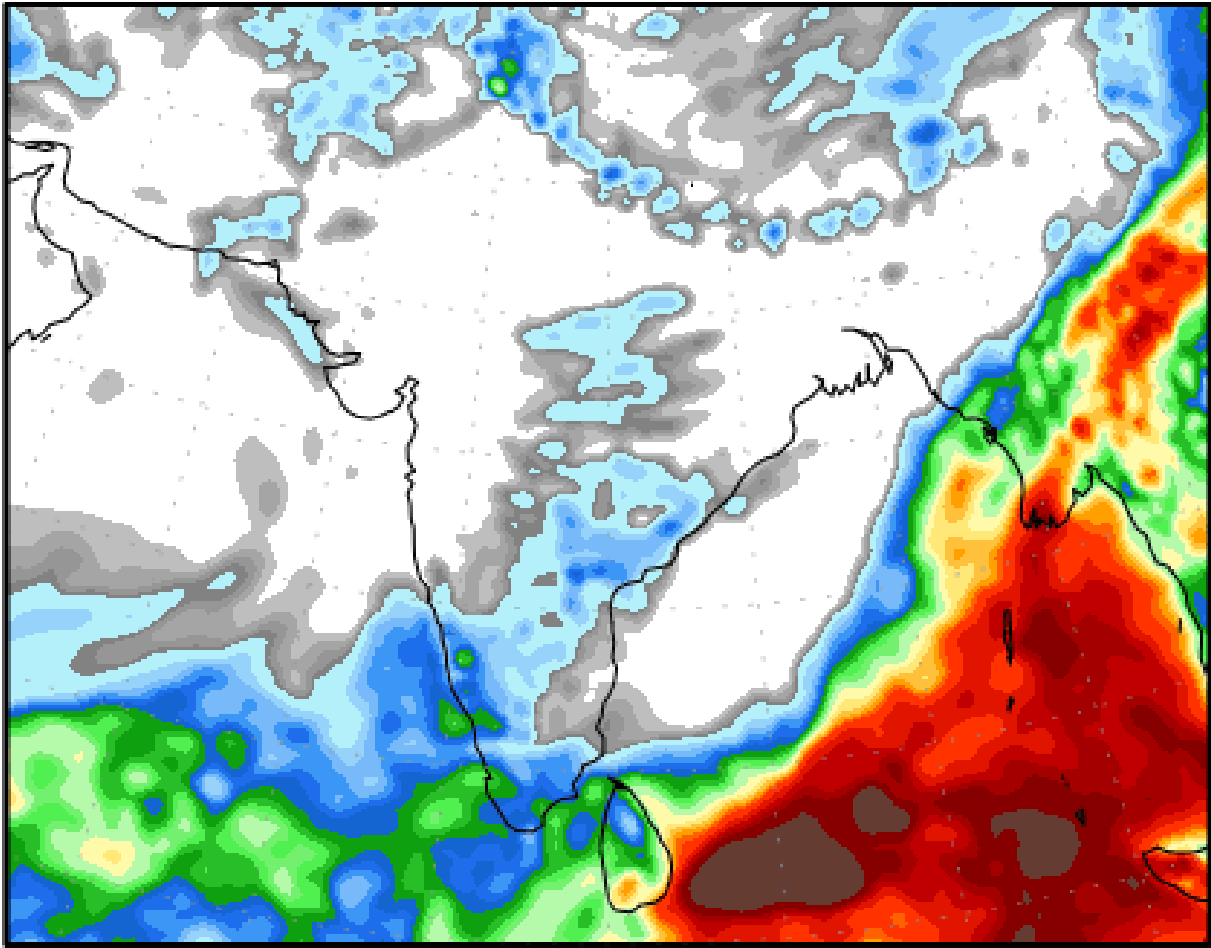


Figure: 2. Precipitation forecast for 06 to 13 December 2018 (Source: NOAA NCEP).