

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 10 December 2019

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Western Disturbance as a cyclonic circulation extending upto mid-tropospheric levels persists over eastern parts of Iran and adjoining Afghanistan. It is likely to affect Western Himalayan region from tonight.
- Under its influence, an induced cyclonic circulation is likely to form over southwest Rajasthan & adjoining Pakistan around tomorrow.
- Fairly widespread to widespread precipitation with heavy rainfall/snow at isolated to few places along with thunderstorm, hailstorm and lightning very likely over Western Himalayan region during 12th-13th December.
- Isolated heavy rainfall is also likely over Punjab and Haryana during the same period.
- Isolated thunderstorm accompanied with hail and lightning is also likely over plains of northwest India along with parts of central India during the same period.
- Strong surface winds (wind speed reaching 25-35 kmph) likely over Punjab, Haryana and West Uttar Pradesh during 12th-13th December.
- The images showing the latest satellite picture in figure. 1.

Main Weather Observations (IMD)

- Rain/Thundershowers observed (from 0830 hours IST to 1730 hours IST of today): Nil. Rainfall recorded at 1730 hours IST of today (1 cm or more): Nil. Dense to very dense fog observed in isolated pockets over Tamilnadu; Moderate fog in isolated places over Jammu & Kashmir. Visibility recorded at 1730 hours IST of today (200 m or less): Kodaikanal-50; Srinagar and Kokarnag-200.
- Maximum Temperature Departures as on 10-12-2019: Maximum temperatures are above normal (1.6°C to 3.0°C) at many places over Konkan & Goa; at a few places over Coastal Karnataka, Kerala, Jharkhand and Odisha and at isolated places over

Madhya Pradesh, Saurashtra & Kutch, Madhya Maharashtra, Vidarbha, Telangana, Coastal Andhra Pradesh, Tamilnadu, Puducherry & Karaikal and Assam & Meghalaya. They are markedly below normal (-5.0°C or less) at isolated places over Jammu & Kashmir; below normal (-1.6°C to -3.0°C) at most places over Haryana, Chandigarh & Delhi; at a few places over Himachal Pradesh and Sub-Himalayan West Bengal & Sikkim and at isolated places over Uttar Pradesh, Gangetic West Bengal and Andaman & Nicobar Islands and near normal over rest parts of the country. The highest maximum temperature of 37.3°C recorded at Mangalore (Coastal Karnataka).

- Minimum Temperature Departures as on 10-12-2019: Minimum temperatures are markedly above normal (5.0°C or more) at isolated places over Madhya Maharashtra and Marathwada; appreciably above normal (3.1°C to 5.0°C) at many places over Konkan & Goa, Telangana and Andaman & Nicobar Islands; at a few places over Gangetic West Bengal and West Madhya Pradesh; at isolated places over Nagaland, Manipur, Mizoram & Tripura, Odisha, Jharkhand, Gujarat, East Madhya Pradesh and North Interior Karnataka; above normal (1.6°C to 3.0°C) at many places over Coastal Andhra Pradesh & Yanam; at a few places over East Uttar Pradesh, Bihar, Chhattisgarh and Coastal & South Interior Karnataka; at isolated places over Rajasthan, Assam & Meghalaya, Kerala & Mahe, Tamilnadu, Puducherry & Karaikal and Rayalseema. They are below normal (-1.6°C to -3.0°C) at a few places over West Uttar Pradesh and Sub-Himalayan West Bengal & Sikkim and at isolated places over Jammu & Kashmir and Uttarakhand and near normal over rest parts of the country. The lowest minimum temperature of 4.4°C recorded at Amritsar (Punjab) over plains of the country.

Weather Warning during next 5 days (IMD)

- 10 December (Day 1): Squally wind (wind speed 40-50 kmph gusting to 60 kmph) very likely to prevail over westcentral & adjoining southwest Arabian Sea during next 12 hours and decrease gradually thereafter. Sea condition is likely to be rough to very rough over the same region. Fishermen are advised not to venture into these areas. Dense fog very likely in isolated pockets over Jammu & Kashmir and Punjab.
- 11 December (Day 2): Thunderstorm accompanied with lightning very likely at isolated places over Jammu & Kashmir. Dense fog very likely in isolated pockets over Punjab.

- 12 December (Day 3): Thunderstorm/hailstorm accompanied with lightning very likely at isolated places over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Rajasthan, Madhya Pradesh and Vidarbha. Heavy rain/snow very likely at a few places over Jammu & Kashmir and at isolated places over Uttarakhand and Himachal Pradesh and Heavy rain at isolated places over Punjab and Haryana, Chandigarh & Delhi.
- 13 December (Day 4): Thunderstorm/hailstorm accompanied with lightning likely at isolated places over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Vidarbha and Chhattisgarh and Thunderstorm accompanied with lightning at isolated places over Tamilnadu, Puducherry & Karaikal. Heavy rain/snow likely at a few places over Jammu & Kashmir and Himachal Pradesh and at isolated places over Uttarakhand.
- 14 December (Day 5): Thunderstorm accompanied with lightning likely at isolated places over Tamilnadu, Puducherry & Karaikal.
- The weather outlook for the period of seven days i.e., 10 to 18 Dec 2019 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)

Haryana

Weather condition:

Weather over the state was clear with morning fog. Maximum temperature was below normal, whereas the minimum temperature was above the normal on few occasions during this week. Bright sunshine hours were observed from 3.6 to 8.2 hours and total evaporation was 9.4 mm.

Contingency measure:

- Farmers are advised to do sowing of rabi crops.
- Wheat: Farmers are advised to do sowing of wheat with recommended varieties. Before sowing treat the seeds with Bavistin or Vitavax 2.0 g/kg of seed. Apply need based irrigation and fertilizer at CRI stage and adopt weed management practices.

- Mustard/Raya: Apply irrigation and chemicals as per crop requirement. Keep vigil on hairy caterpillar and mustard sawfly.
- Fodder/Barseem: Farmers are advised to apply requirement based irrigation. Sugarcane: Keep on vigilance for insect/pests and apply need based irrigation.
- Vegetables/Fruits: Apply need based irrigation and chemical spray. Keep vigil for insect-pest and diseases and follow proper weed control measures.
- Live stock management: Protect the animals from variable weather conditions and provide clean and dry bedding. Provide 50 grams iodized salt and 50 to 100 grams mineral mixture daily along with animal feed/fodder, green fodder to keep them healthy.

09-12-2019/(1515 to 1542) GMT
09-12-2019/(2045 to 2112) IST

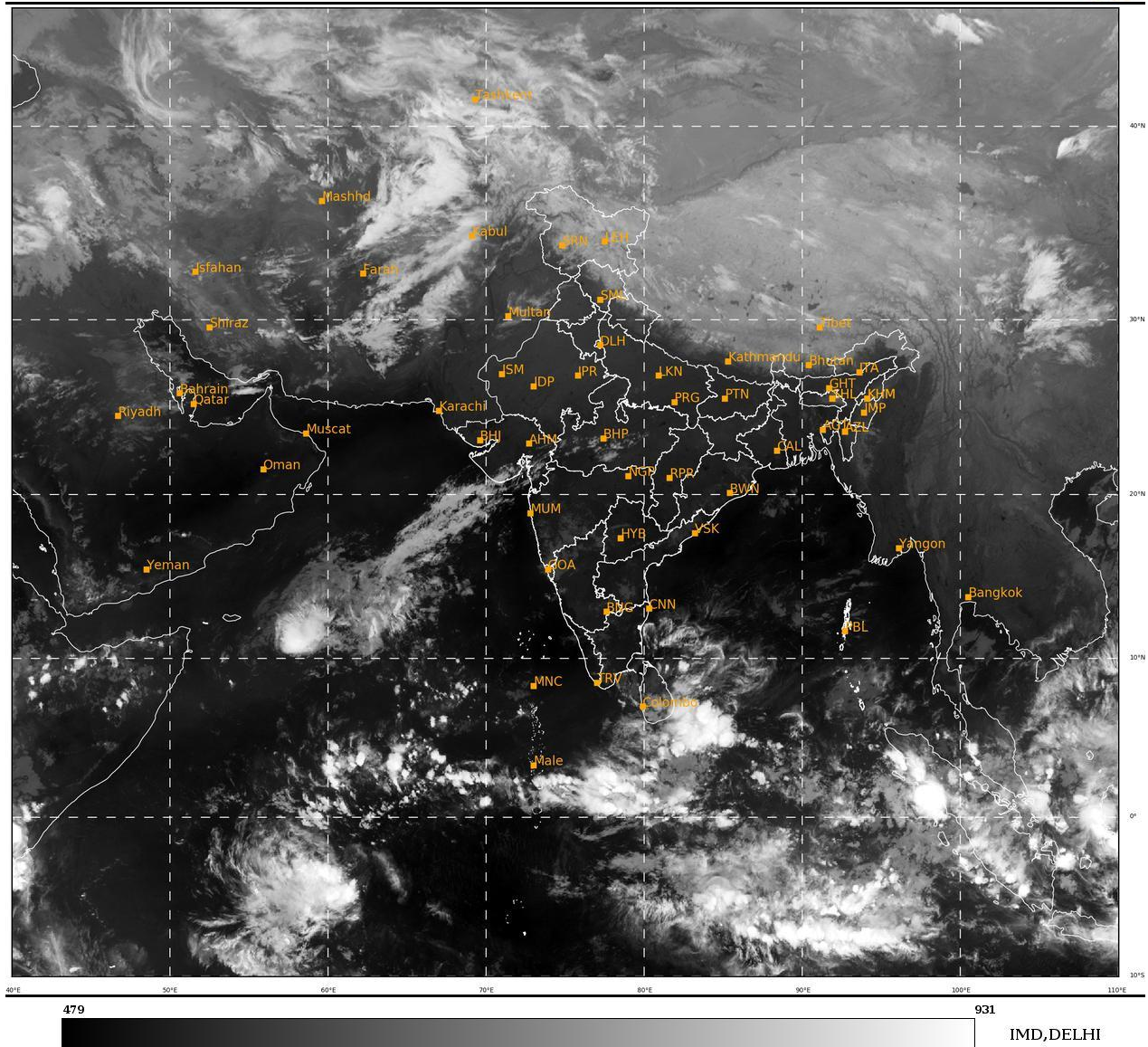


Figure: 1. Latest available satellite picture as on 10 December 2019 at 2030 Hrs (IST). (Source: IMD).

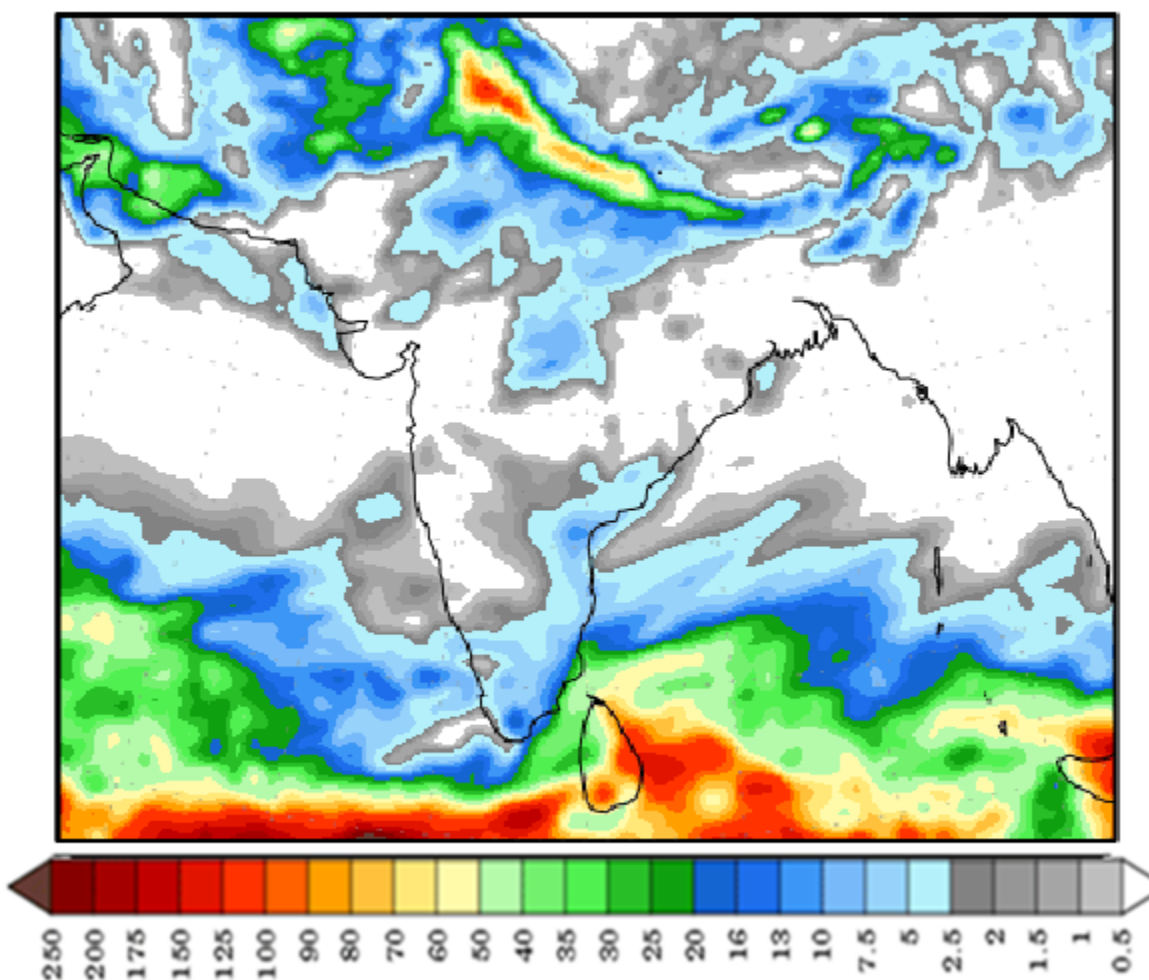


Figure:2. Precipitation forecast for 10 November to 18 December 2019 (Source: NOAA NCEP). *Disclaimer: The predictability of weather depends on many factors which are dynamic in nature. The success of Agromet advisories provided here depends on the accuracy of the forecasts. In no event will India Meteorological Department (IMD) and Indian Council of Agricultural Research (ICAR) be liable to the user or to 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.*