

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 07 January 2020

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Significant Weather Features (IMD)

- A Western Disturbance (WD) as a cyclonic circulation lies over Afghanistan & neighbourhood. An induced cyclonic circulation likely to form over west Rajasthan & neighbourhood during next 24 hours. Under its influence, light/moderate fairly widespread to widespread rain/snow is most likely over Western Himalayan Region during next 2 days with possibility of isolated heavy falls over Jammu & Kashmir and Himachal Pradesh during next 24 hours and over Uttarakhand during next 48 hours.
- Under the influence of WD & its induced circulation, scattered to fairly widespread rain is most likely over Punjab, Haryana, Chandigarh & Delhi and isolated to scattered north Rajasthan and Uttar Pradesh during next 48 hours with possibility of isolated heavy falls over northwest Uttar Pradesh during next 48 hours.
- Isolated thunderstorm & lightning accompanied with hailstorm is also very likely over Jammu & Kashmir, Himachal Pradesh during next 24 hours; over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi and Uttar Pradesh during next 48 hours. The images showing the latest satellite picture in figure. 1.

Main Weather Observations (IMD)

- Rain/Thunder showers observed (from 0830 hours IST to 1730 hours IST of Yesterday): at most places over Jammu & Kashmir, Himachal Pradesh and Punjab; at many places over Uttarakhand and at isolated places over Haryana, Chandigarh, West Rajasthan, West Uttar Pradesh, Coastal Andhra Pradesh & Yanam, Rayalaseema and Tamil-Nadu, Puducherry & Karaikal.
- Dense fog (at 0530 hours IST of today) observed at isolated pockets over West Bengal & Sikkim and Bihar and Moderate fog at isolated pockets over Assam & Meghalaya, Himachal Pradesh, East Uttar Pradesh, Bihar and Tripura. Visibility :- Malda, Bankura and Gaya -50 m; Silchar, Guwahati, Agartala, Sundernagar, Bhagalpur, Purnea and Gorakhpur -200 m.
- Maximum Temperature Departures as on 06-01-2020: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over Kerala &

Mahe; above normal (1.6°C to 3.0°C) at most places over Konkan & Goa; at many places over Saurashtra & Kutch and Tamil-Nadu, Puducherry & Karaikal; at a few places over Coastal & South Interior Karnataka; at isolated places over Gujarat Region, East Rajasthan and Lakshadweep. They were markedly below normal (-5.1°C or less) at most places over Himachal Pradesh and Punjab; at many places over Jammu & Kashmir and Sub-Himalayan West Bengal & Sikkim; at a few places over Haryana and Chandigarh; at isolated places over West Rajasthan, Bihar and Gangetic West Bengal; appreciably below normal (-3.1°C to -5.0°C) at most places over Uttarakhand; at isolated places over East Madhya Pradesh, Odisha and Assam & Meghalaya; below normal (-1.6°C to -3.0°C) at many places over Madhya Maharashtra, Vidarbha and Nagaland, Manipur, Mizoram & Tripura; at a few places over Marathwada, Arunachal Pradesh and Coastal Andhra Pradesh & Yanam; at isolated places over West Madhya Pradesh and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 36.6°C was recorded at Karwar (Coastal Karnataka).

- Minimum Temperature Departures as on 06-01-2020: Minimum temperatures were markedly above normal (5.1°C or more) at a few places over Rayalseema; at isolated places over Rajasthan, Coastal Andhra Pradesh & Yanam and Tamil-Nadu, Puducherry & Karaikal; appreciably above normal (3.1°C to 5.0°C) at most places over Punjab; at isolated places over Himachal Pradesh, Haryana, Chandigarh & Delhi, Assam & Meghalaya, Madhya Maharashtra and Interior Karnataka; above normal (1.6°C to 3.0°C) at a few places over Jammu & Kashmir, Nagaland, Manipur & Tripura and Andaman & Nicobar; at isolated Places over Konkan & Goa, Kerala, Telangana and Gujarat State. They were appreciably below normal (-3.1°C to -5.0°C) at isolated places over Madhya Pradesh and Vidarbha; below normal (-1.6°C to -3.0°C) at a few places over West Bengal & Sikkim and Uttarakhand; at isolated places over Bihar, Odisha and East Rajasthan. Yesterday, the lowest minimum temperature of 4.0°C was recorded at Betul and Shivpuri (West Madhya Pradesh) over plains of the country.

Weather Warning during next 5 days (IMD)

- 07 January (Day 1): Heavy rain/snow very likely at isolated places over Jammu & Kashmir, Himachal Pradesh and Uttarakhand. Thunderstorm accompanied with hail & lightning very likely at isolated places over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh and Madhya Pradesh; with lightning at isolated places over north Rajasthan. Dense fog very likely at isolated places over Bihar, West Bengal & Sikkim, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during night/morning

hours. Severe cold day conditions very likely in isolated pockets over Uttarakhand and cold day conditions in isolated pockets over Bihar.

- 08 January (Day 2): Heavy rain likely at isolated places over Uttarakhand and north West Uttar Pradesh. Thunderstorm accompanied with hail & lightning likely at isolated places over Punjab, Haryana, Chandigarh & Delhi, Uttarkhand, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Arunachal Pradesh and northeast Assam. Severe cold day conditions very likely in isolated pockets over Uttarakhand.
- 09 January (Day 3): Thunderstorm accompanied with hail & lightning likely at isolated places over Arunachal Pradesh and northeast Assam. Dense fog likely at isolated places over Punjab, Haryana, Chandigarh & Delhi and north Rajasthan during night/morning hours. Cold day conditions likely in isolated pockets over Uttarakhand.
- 10 January (Day 4): Dense to very dense fog likely at isolated places over Uttar Pradesh and Dense fog at isolated places over Punjab, Haryana, Chandigarh & Delhi, north Rajasthan and Odisha during night/morning hours.
- 11 January (Day 5): Dense fog likely at isolated places over East Uttar Pradesh, Bihar, West Bengal, & Sikkim, north Madhya Pradesh and Odisha during night/morning hours.
- The weather outlook for the period of seven days i.e., 07 to 15 Jan 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)

West Bengal

Weather condition:

Weather conditions during the 1st week at Mohanpur, West Bengal: Maximum temperature: 18.4 to 25.0 °C, Minimum temperature: 8.9 to 15.5 °C, bright sun shine hours: 0.0 to 7.9 hours, Morning-time relative Humidity: 92 to 100 %, after noon-time R.H: 61 to 98 %, weekly total pan evaporation: 4.2 mm, total weekly rainfall: 18.2 mm and average daily wind speed is 0.13 km/h.

Contingency measure:

- Mustard: Irrigate the mustard field at the time of flowering (for late sown crop) or pod initiation (for early sown crop). There is a chance of cloudy condition in

coming days. Keep continuous vigilance of aphid attack. To control the attack, apply 1.5 ml metasystox or rogor per lit. of water.

- Potato: In the present situation, Mite or thrips may appear. To control this, apply Acephate-75%WP @ 0.75 gm per lit. of water. After one month i.e., attaining almost 6 inch height, apply 22 kg urea per bigha as top dressing. Prepare irrigation channel.
- Boro-rice: To protect the seedlings from cold, cover the nursery bed with polythene or keep stagnant water in the nursery bed especially for the night-time. Irrigate the nursery bed regularly. Keep 2 to 3 cm stagnant water. Start preparation of the main field for transplanting. Apply 2 to 3 cart full of cow dung and plough field properly. Before last ploughing, apply 9 kg urea, 50 kg super phosphate, 13 kg MOP per bigha of land. If the soil is zinc deficient, apply 2 kg zinc-sulphate per bigha of land.

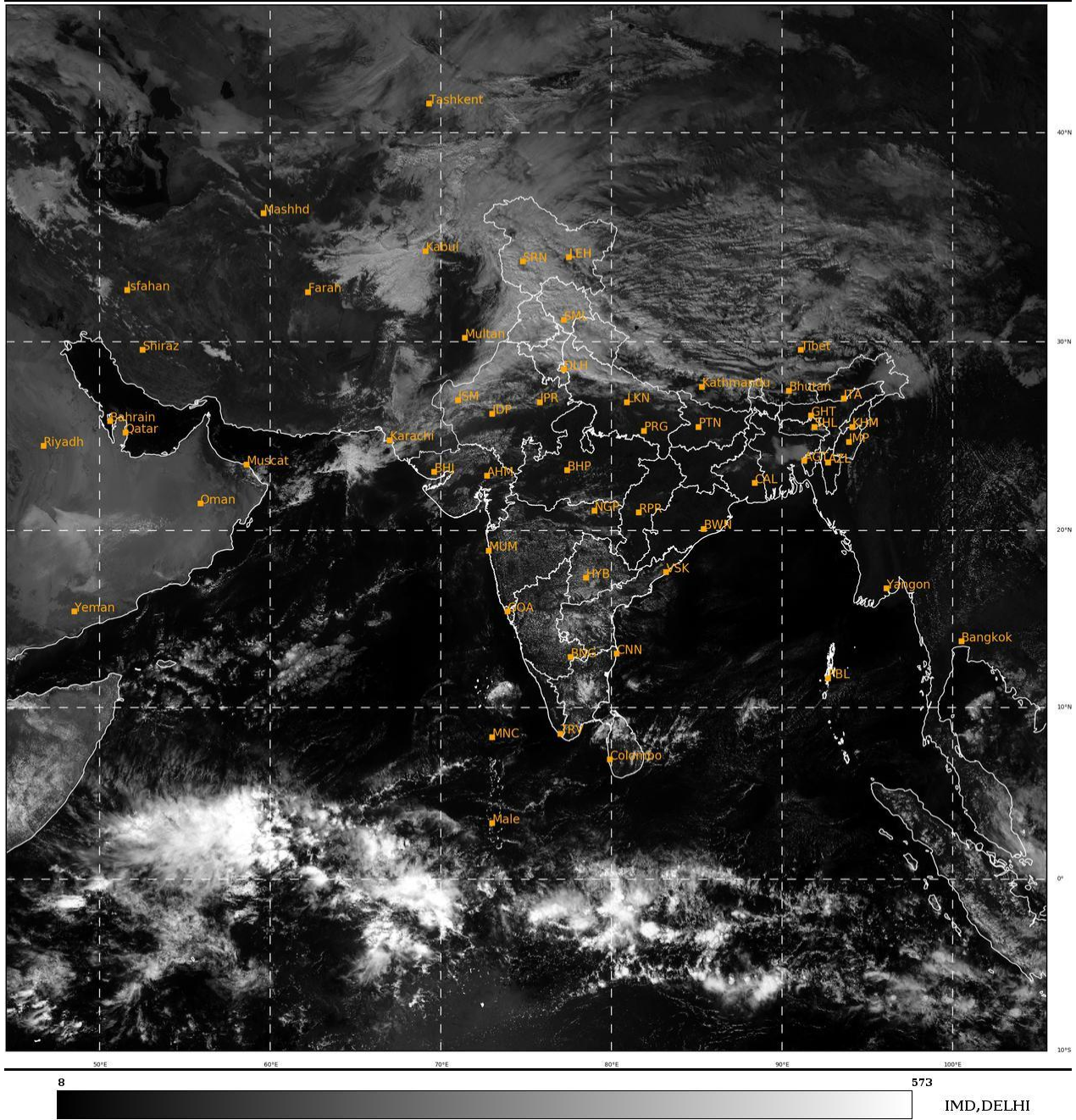


Figure: 1. Latest available satellite picture as on 07 January 2020 at 1357 Hrs (IST).
(Source: IMD).

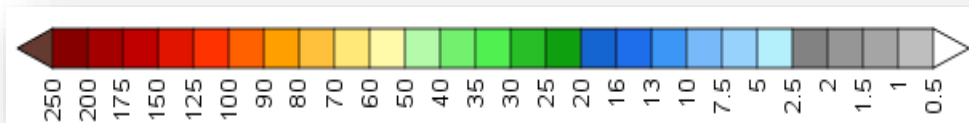
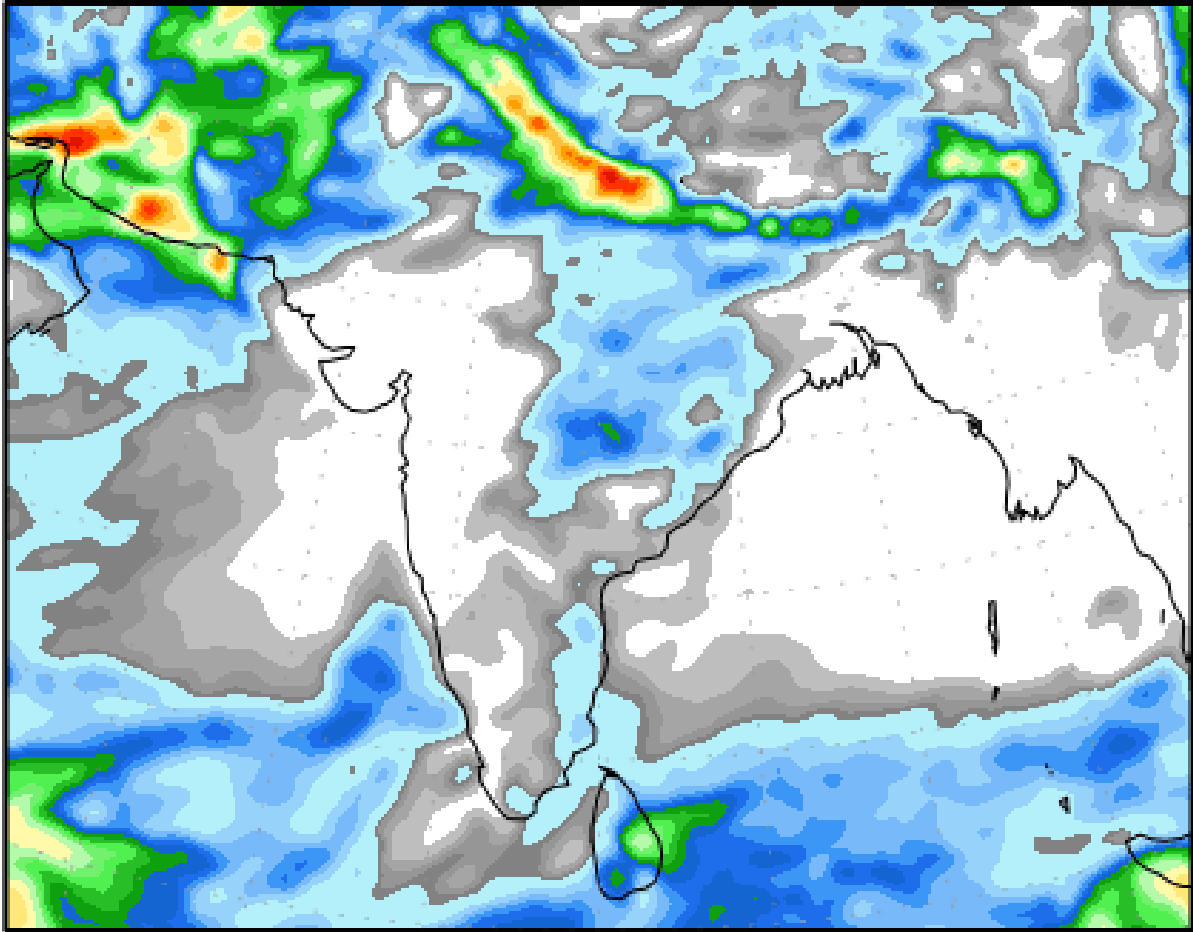


Figure:2. Precipitation forecast for 07 Jan to 15 Jan 2020 (Source: NOAA NCEP).

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