

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 04 January 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Under the influence of a fresh Western Disturbance, fairly widespread to widespread rain/snow is likely over Western Himalayan Region and scattered to fairly widespread rain is likely over plains of northwest India during 06th-07th January. Thunderstorm accompanied with lightning/hail at isolated places is also likely over the region during the same period.
- Dense to very dense fog at isolated places very likely over Uttar Pradesh, North Madhya Pradesh and Bihar and Dense fog over Punjab and Haryana, Chandigarh & Delhi Gangetic West Bengal Odisha, East Rajasthan during night/morning hours during next 2 days.
- The images showing the latest satellite picture in figure. 1.

Main Weather Observations (IMD)

- Rain/Thunder showers observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at most places over Arunachal Pradesh, Odisha, Gangetic West Bengal and Nagaland, Manipur, Mizoram & Tripura; at many places over Jammu & Kashmir, Assam & Meghalaya and Coastal Andhra Pradesh; at a few places over Telangana, East Uttar Pradesh, Chhattisgarh and Sub-Himalayan West Bengal & Sikkim and at isolated places over Himachal Pradesh, Bihar, Jharkhand, Kerala & Mahe, Lakshadweep and Tamil-Nadu, Puducherry & Karaikal.
- Fog recorded at 0830 hours IST of today: Very Dense Fog in isolated pockets over West Madhya Pradesh and West Madhya Pradesh; Moderate to Dense Fog in isolated pockets over East Rajasthan, Jammu & Kashmir, Himachal Pradesh, East Uttar Pradesh and Punjab Uttarakhand, Haryana, Chandigarh & Delhi, Chhattisgarh, Bihar and Assam & Meghalaya.
- Visibility recorded at 0830 hours IST of today (200 m or less): Aligarh, Agra, Datia and Tikamgarh- 25 each; Mukateshwar, Kanpur, Gwalior, Khajraho, Rajgarh, Kota and Aurangabad -50 m each; Gulbarg, Kalpa, Ludhiana, Karnal, Delhi (Sfd), Fatehpur, Jhansi, Rewa, Guna, Shajaur, Bhopal, Jabalpur, Gaya, Bhagalpur and Sohra -200 each.

- Maximum Temperature Departures as on 03-01-2020: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over Tamil-Nadu, Puducherry & Karaikal and Andaman Nicobar Islands; above normal (1.6°C to 3.0°C) at a few places over Himachal Pradesh, Interior Karnataka and Lakshadweep and at isolated places over Haryana, Chandigarh & Delhi, Punjab, Coastal Andhra Pradesh & Yanam, Kerala & Mahe and Uttarakhand. They were markedly below normal (-5.1°C or less) at many places over Vidarbha, Odisha and Gangetic West Bengal; at a few places over West Madhya Pradesh and at isolated places over Telangana, Sub-Himalayan West Bengal & Sikkim, Jharkhand and Assam & Meghalaya; appreciably below normal (-3.1°C to -5.0°C) at many places over Gujarat State; at a few places over Saurashtra & Kutch, Marathwada and Chhattisgarh and at isolated places over Konkan & Goa and Madhya Maharashtra; below normal (-1.6°C to -3.0°C) at many places over West Rajasthan and at isolated places over Jammu & Kashmir, East Rajasthan and East Uttar Pradesh and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 35.6°C was recorded at Karwar (Coastal Karnataka).
- Minimum Temperature Departures as on 04-01-2020: Minimum temperatures are markedly above normal (5.1°C or more) at many places over East Madhya Pradesh; at a few places over Telangana and at isolated places over Nagaland, Manipur, Mizoram & Tripura; appreciably above normal (3.1°C to 5.0°C) at many places over Rayalaseema, Coastal Andhra Pradesh & Yanam and Andaman & Nicobar Islands; at a few places over Assam & Meghalaya, Lakshadweep, Tamil-Nadu, Puducherry & Karaikal and at isolated places over West Madhya Pradesh; above normal (1.6°C to 3.0°C) at most places over Chhattisgarh, Odisha and Jharkhand; at a few places over East Madhya Pradesh, Bihar, West Bengal Sikkim and Kerala & Mahe and at isolated places over Jammu & Kashmir, Himachal Pradesh, East Rajasthan, West Madhya Pradesh and south Interior Karnataka. They are below normal (-1.6°C to -3.0°C) at a few places over Saurashtra & Kutch and Konkan & Goa and at isolated places over Gujarat region, Punjab and Haryana, Chandigarh & Delhi . The lowest minimum temperature of 3.8°C recorded at Hisar(Haryana) over plains of the country.

Weather Warning during next 5 days (IMD)

- 04 January (Day 1): Cold Wave condition very likely in isolated pockets over Punjab. Thunderstorm accompanied with lightning very likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya Coastal Andhra Pradesh & Yanam and Arunachal Pradesh. Dense to very dense fog at isolated pockets very likely over West Uttar Pradesh, North Madhya Pradesh and Bihar

and Dense fog over Punjab and Haryana, Chandigarh & Delhi Gangetic West Bengal, Odisha, East Rajasthan during night/morning hours. 05 January (Day 2): Thunderstorm accompanied with lightning very likely at isolated places over West Rajasthan. Dense to very dense fog very likely at some parts over Uttar Pradesh and at isolated places over North Madhya Pradesh Dense fog at isolated places over East Rajasthan, Bihar, Odisha, West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram and Tripura during night/morning hours.

- 06 January (Day 3): Heavy rain/snow likely in isolated places over Jammu & Kashmir and Heavy rain at isolated places over south Tamil-Nadu. Dense to very dense fog very likely at isolated places over North Madhya Pradesh and dense fog at isolated places over Uttar Pradesh, Odisha, Bihar, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and Nagaland, Manipur, Mizoram and Tripura during night/morning hours. Thunderstorm accompanied with hail & lightning very likely at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana Chandigarh & Delhi and with lightning very likely at isolated places over East Rajasthan.
- 07 January (Day 4): Heavy rain/snow likely in isolated places over Jammu & Kashmir and Heavy rain at isolated places over south Tamil-Nadu. Dense fog very likely at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram and Tripura during night/morning hours. Thunderstorm accompanied with hail & lightning very likely at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana Chandigarh & Delhi and Chhattisgarh and with lightning very likely at isolated places over Uttar Pradesh and West Madhya Pradesh.
- 08 January (Day 5): Dense to very dense fog likely at isolated places over East Rajasthan and dense fog at isolated place over Punjab, Haryana, Chandigarh & Delhi during night/morning hours. Cold day Conditions at isolated pockets likely over the area of plains of Uttarakhand. Thunderstorm accompanied with hail & lightning likely at isolated places over East Madhya Pradesh, Vidarbha, North Chhattisgarh and with lighting at isolated places over Uttar Pradesh.
- The weather outlook for the period of seven days i.e., 04 Dec 2019 to 12 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)

Haryana

Weather condition:

Weather was variable. Maximum and minimum temperature was below the normal temperature throughout the week. on 28th and 29th frost was observed in morning. Bright sunshine hours were ranged from 0.0 to 3.3 hours and total evaporation was 4.1 mm. Easterly wind was mainly dominant during the period.

Contingency measure:

- General Advisory: Weather likely to be variable and cloudy during the period and chances of rainfall/thunderstorm at isolated places on 6th January. Possibility of light mist / fog in the morning and late night hours.
- General advised: Farmers are advised to do proper weed control and provide need based irrigation in rabi crops.
- Wheat: Apply need based irrigation and fertilizer at CRI stage and adopt weed management practices.
- Mustard/Raya: Keep vigil on hairy caterpillar, mustard sawfly and diseases. Apply need based irrigation and intercultural operations to conserve the soil moisture.
- Fodder/Barseem: Apply irrigation as per crop requirement Sugarcane : Keep on vigilance for insect/pests and apply need based irrigation.
- Vegetables/Fruits: Apply need based irrigation in evening hours to save crop from low temperature. Keep vigil for insect-pest and diseases and follow proper weed control measures.
- Livestock 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.

SAT : INSAT-3D IMG
Visible Count 0.65 um
L1C Mercator

04-01-2020/(0800 to 0827) GMT
04-01-2020/(1330 to 1357) IST

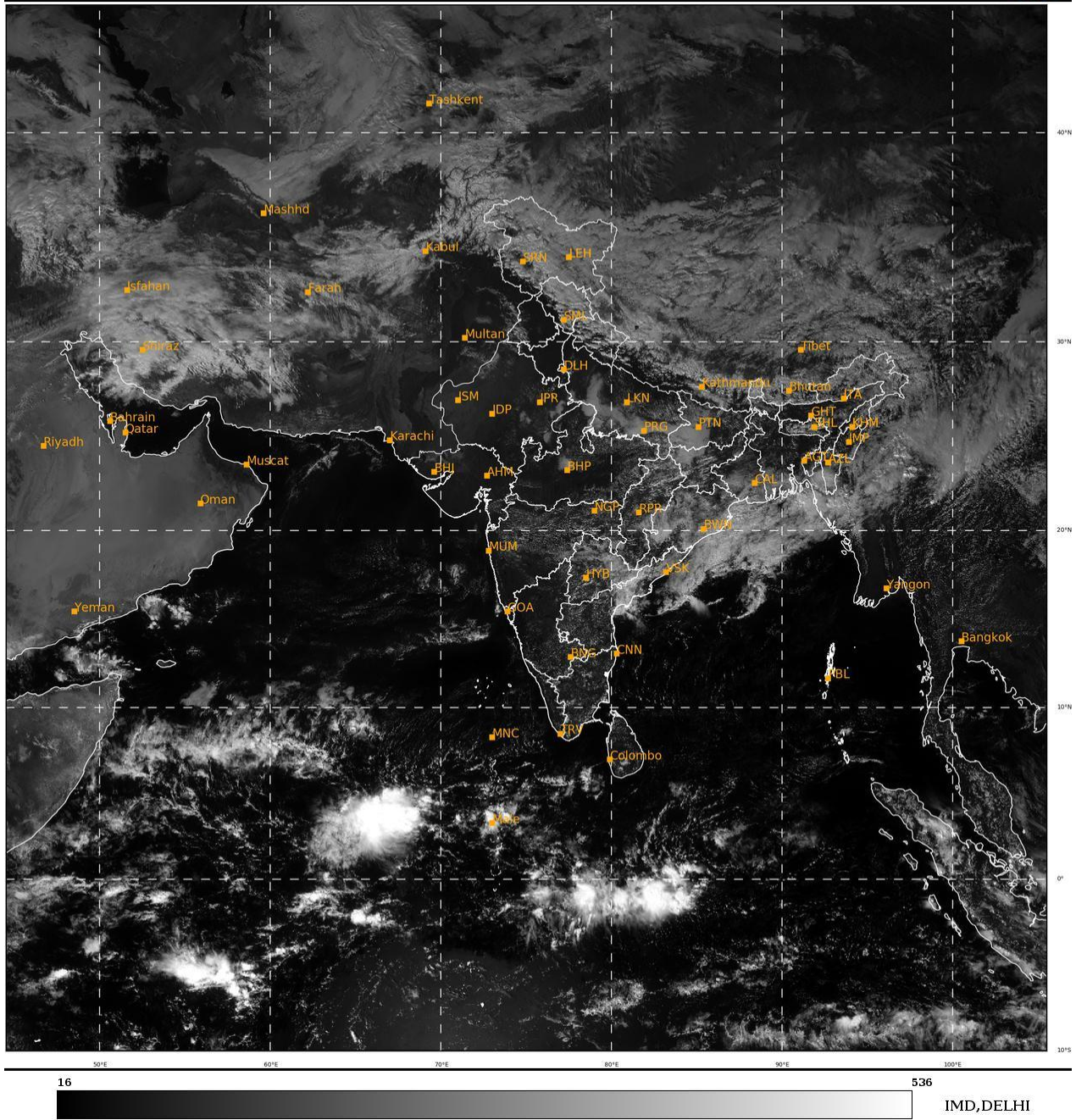


Figure: 1. Latest available satellite picture as on 04 January 2020 at 1357 Hrs (IST).
(Source: IMD).

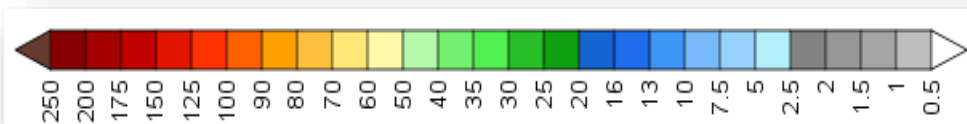
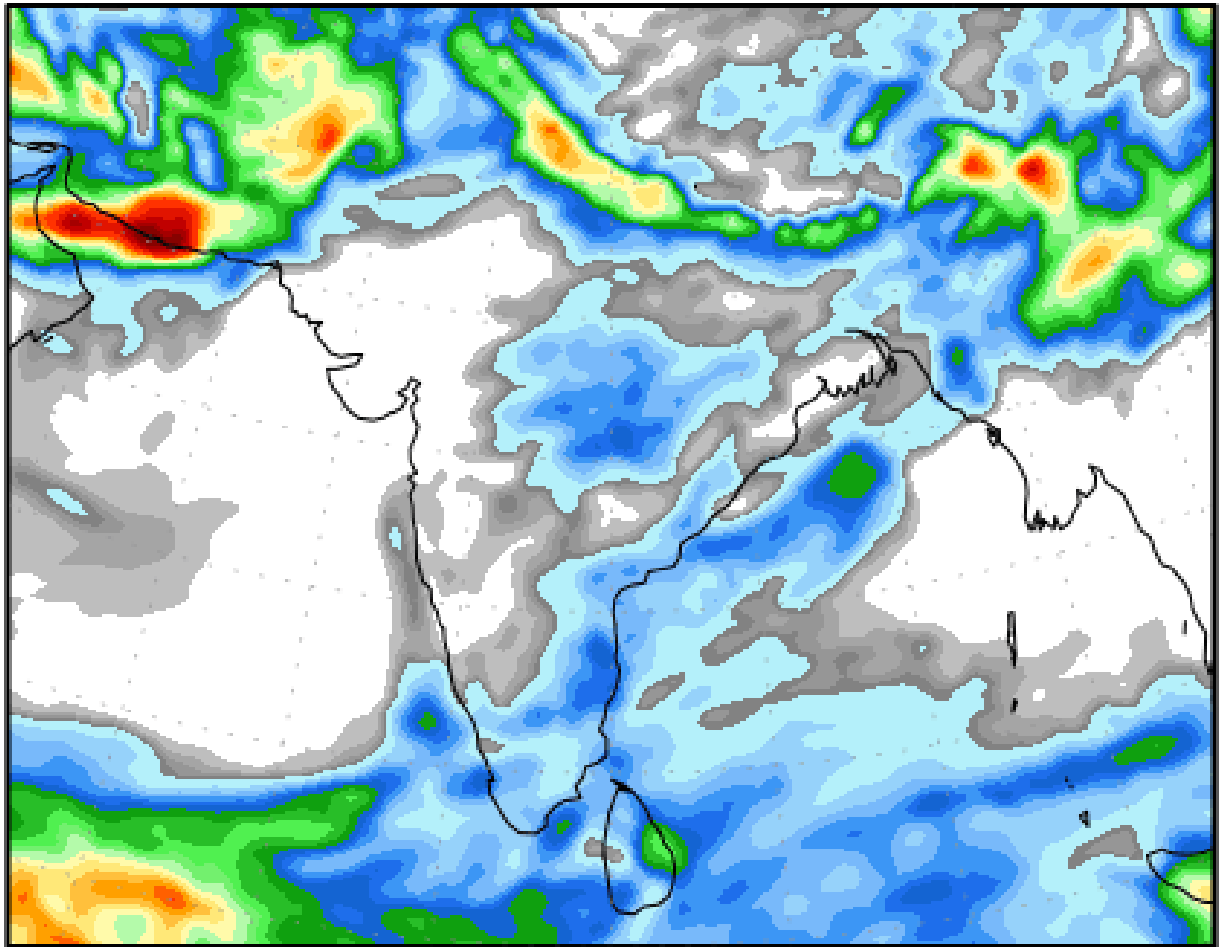


Figure:2. Precipitation forecast for 04 Jan to 12 Jan 2020 (Source: NOAA NCEP).

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