

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 10 February 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A fresh Western Disturbance as a cyclonic circulation lies over Afghanistan & neighborhood between 3.1 km & 3.6 km above mean sea level. It is very likely to cause scattered to fairly widespread rain/snow over Jammu & Kashmir and isolated rain/snow over Himachal Pradesh from 11th-13th February with maximum intensity on 12th February and significant reduction thereafter.
- Cold wave conditions very likely in isolated places over north Madhya Pradesh and Chhattisgarh during the next 48 hours and over Punjab, Bihar, Jharkhand, and Odisha during the next 24 hours.
- Dense fog very likely in isolated parts over Punjab, Haryana & Chandigarh and Odisha during the next 24 hours.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rain/Thundershowers observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at a few places over Coastal Andhra Pradesh and at isolated places over Arunachal Pradesh, Assam & Meghalaya, Odisha, Chhattisgarh, Telangana, and Nagaland, Manipur, Mizoram & Tripura
- Dense to very dense fog (at 0830 hours IST of today) observed in isolated parts over Punjab and Haryana and Moderate fog in isolated parts over Delhi and Madhya Maharashtra.
- Cold Wave Conditions observed at scattered places over Punjab and at isolated places over Haryana, Madhya Pradesh, Chhattisgarh, Bihar, Jharkhand, and Odisha.
- Visibility recorded at 0830 hours IST of today (in meter): Patiala and Karnal -25 each; New Delhi (Palam & Safdarjung), Mahabaleshwar -200 each.
- Maximum Temperature Departures as on 09-02-2020: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Jammu & Kashmir; at isolated places over Himachal Pradesh and Kerala & Mahe; above normal (1.6°C to 3.0°C) at a few places over Uttarakhand, Assam & Meghalaya

and south Tamilnadu & Puducherry; at isolated places over Saurashtra & Kutch, Sub-Himalayan West Bengal & Sikkim and Andaman & Nicobar Islands. They were markedly below normal (-5.1°C or less) at many places over Telangana; appreciably below normal (-3.1°C to -5.0°C) at most places over Vidarbha, Chhattisgarh & Odisha; at many places over Marathwada & Madhya Maharashtra; at a few places over Madhya Pradesh; at isolated places over Gangetic West Bengal and Coastal Andhra Pradesh; below normal (-1.6°C to -3.0°C) at a few places over East Uttar Pradesh, Jharkhand and North Interior Karnataka; at isolated places over West Uttar Pradesh and Gujarat state and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 37.0°C was recorded at Kottayam (Kerala) over the plains of the country.

- Minimum Temperature Departures as on 10-02-2020 (at 0830 hrs IST today): Minimum temperatures are markedly above normal (5.1°C or more) at a few places over Madhya Maharashtra; appreciably above normal (3.1°C to 5.0°C) at isolated places over Assam & Meghalaya and Konkan & Goa; above normal (1.6°C to 3.0°C) at many places over Andaman & Nicobar Islands; at a few place over Coastal Andhra Pradesh and Tamilnadu, Puducherry & Karaikal and isolated places over Gujarat region, Interior Karnataka, Rayalaseema, and Kerala & Mahe. They are markedly below normal (-5.1°C or less) at many places over Jharkhand and isolate places over Madhya Pradesh, Vidarbha, Chhattishgarh and Odisha; appreciably below normal (-3.1°C to -5.0°C) at Most places over Haryana, Chandigarh & Delhi and Gangetic West Bengal; at a few places over Jammu & Kashmir, Himachal Pradesh, and Bihar and at isolated places over Uttarkhand, Punjab, Uttar Pradesh, SubHimalayan West Bengal Sikkim; below normal (-1.6°C to -3.0°C) at most places over East Rajasthan; at many places over Coastal Karnataka; at a few places over West Rajasthan; at isolated places over Saurashtra & Kutch and near normal over rest parts of the country. The lowest minimum temperature of 3.5°C recorded at Narnaul (Haryana) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 10 February (Day 1): Cold wave conditions very likely in isolated places over Punjab, north Madhya Pradesh, Chhattisgarh, Bihar, Jharkhand, and Odisha. Dense fog very likely in isolated parts over Punjab, Haryana & Chandigarh and Odisha. Thunderstorm accompanied by lightning very likely at isolated places

over Coastal Andhra Pradesh & Yanam. Strong winds (speed reaching 45-55 kmph) likely over the Comorin area and Gulf of Mannar.

- 11 February (Day 2): Thunderstorm accompanied by lightning very likely at isolated places over Jammu & Kashmir. Dense fog is very likely in isolated parts over Odisha. Cold wave conditions are very likely in isolated places over north Madhya Pradesh and Chhattisgarh. Strong winds (speed reaching 45-55 kmph) likely over the Comorin area and Gulf of Mannar.
- 12 February (Day 3): Thunderstorm accompanied by lightning very likely at isolated places over Jammu & Kashmir. Strong winds (speed reaching 45-55 kmph) likely over the Comorin area and Gulf of Mannar.
- 13 February (Day 4): No Weather warning.
- 14 February (Day 5): No Weather warning.
- The weather outlook for seven days i.e., 10 to 18 Feb 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)

Madhya Pradesh

Weather condition:

High Tmax.: 29 °C at Khargone, Sidhi and Mandla districts - Low TMin: 6 °C at Betul district - High Rainfall: 10 mm at Rewa district - Day temp.: 2 °C below normal over the state - Night Temp.: 2 °C above normal over the state - Occurrence of cold day at many places.

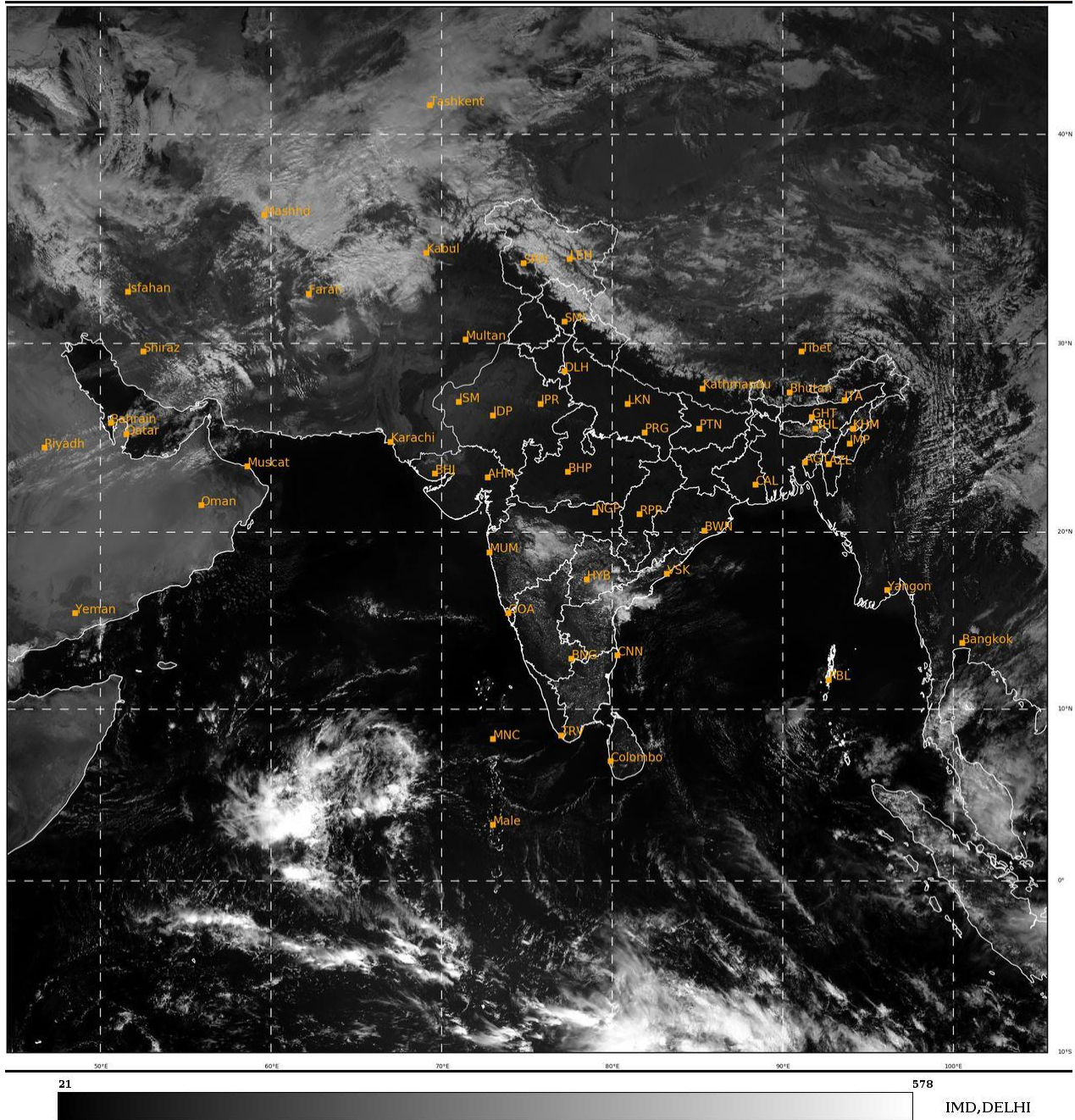
Contingency measure:

- General Advice: Light rainfall is likely to occur in the eastern part of the state. Keep proper drainage in all crops except rice.
- Soybean: In areas where there are excessive rains, do not let the standing water in the soybean field. To control mosaic in soybean uproot and burn affected plants and spray imidacloprid (17.8 SL) @ 300 ml or thiamethoxam 250 gm dissolve in 500 liters of water per hectare to check whitefly. At places where the girdle beetle and Bihar hairy caterpillar has started, solution of trochophore 40 EC @ 800 ML or profenophos 1.0 liters or coragen @150 ml per hectare in 500 liters of water, should be sprayed. For more information contact the nearest Krishi Vigyan Kendra.

- Rice: Use cono weeder to control weeds standing water. To conserve rainwater, make bunds around the fields of rice.
- Pigeonpea: Control the weeds in the field by the hand hoe, for trashy wads whip super or Targa super can be used. Arrangements for drainage as required in fields.
- Sugarcane: Sugarcane crop tied the plants with each other so as to avoid lodging.
- Fruit tree: Clean the gardens and remove the weed. Make basins for lemon and guava and use compost and fertilizer as per recommendation.
- Vegetables: Use of systemic insecticides for control of fruit borer in eggplant, tomatoes, and okra. Drain the turmeric and ginger fields properly. Preparation for nursery for early season rabi vegetables. Spray of propinaphos @ of 2 ML per liter water to control the insect.
- Animal Husbandry & Poultry: Keep animals and chickens in the shed and arrange for pure water. Regular clean water for milch cows and save from mosquitoes and for various diseases.

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

10-02-2020/(0800 to 0827) GMT
10-02-2020/(1330 to 1357) IST



**Figure: 1. Latest available satellite picture as on 10 February 2020 at 1357 Hrs (IST).
(Source: IMD).**

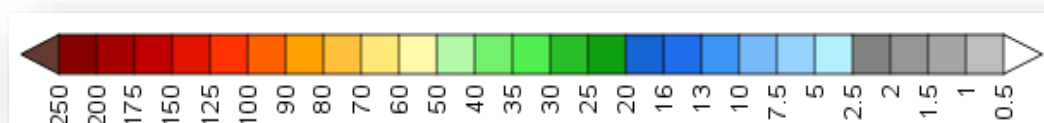
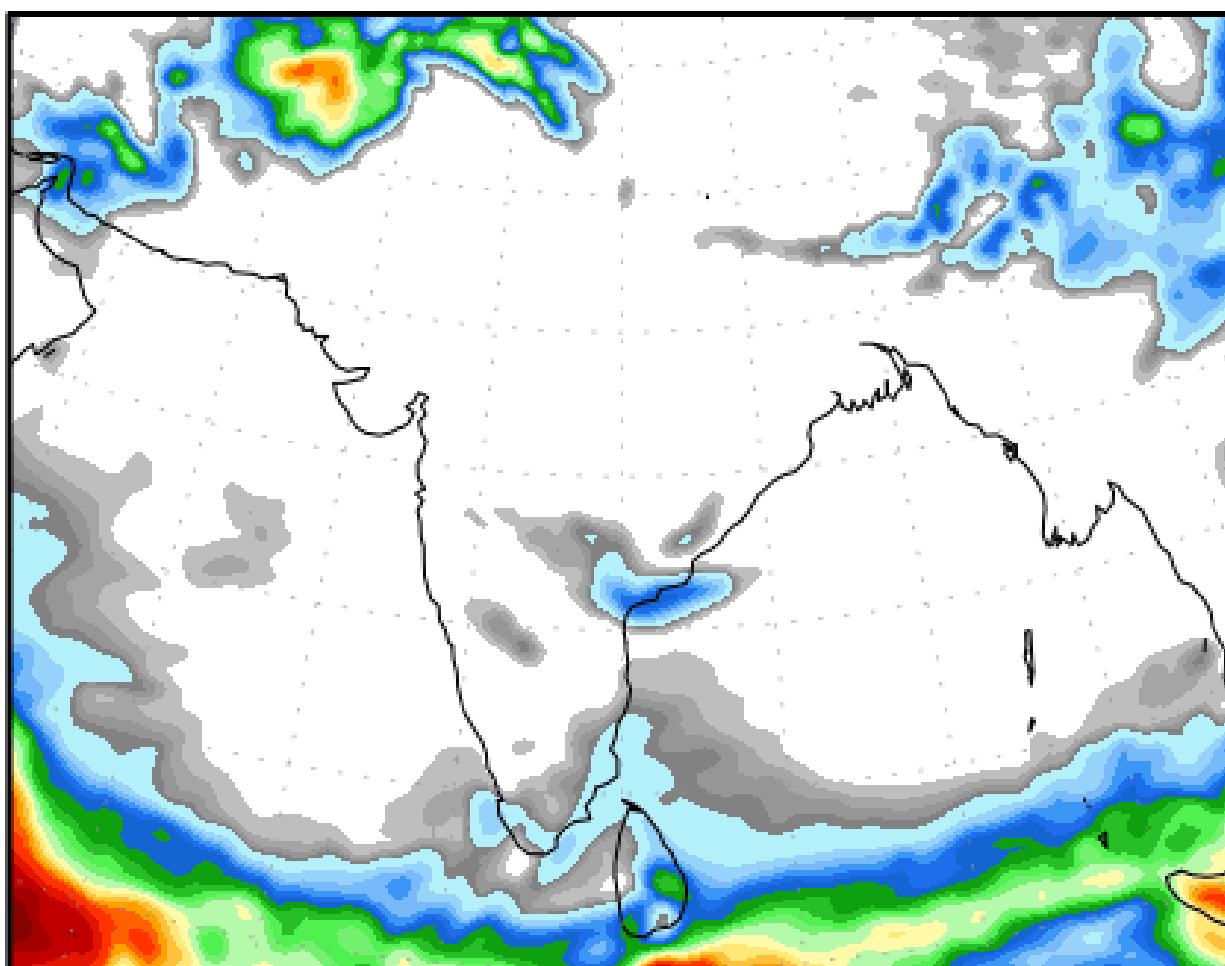


Figure:2. Precipitation forecast for 10 to 18 Feb 2020 (Source: NOAA NCEP). *Disclaimer: The predictability of weather depends on many factors which are dynamic in nature. The success of Agromet advisories provided here depends on the accuracy of the forecasts. In no event will India Meteorological Department (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.*