

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 25 January 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- With the movement of the Western Disturbance further northeastwards from Jammu and Kashmir, dry northwesterly winds very likely to pick up from today the 25th January and persist during subsequent 3-4 days over plains of north and adjoining parts of central and western India. Under its influence;
 - (i) Current spell of Dense to very dense Fog in isolated/some pockets over Punjab, Haryana, Chandigarh, Uttar Pradesh, north Rajasthan likely to persist over these areas till 26th January 2021 and decrease in spatial distribution and intensity thereafter.
 - (ii) Cold Day to Severe Cold Day conditions very likely in isolated/some pockets over Uttar Pradesh during next 2 days and Cold Day conditions in isolated pockets over Punjab and Haryana & Chandigarh during next 24 hours.
 - (iii) Cold Wave to Severe Cold Wave conditions very likely in isolated pockets over north Rajasthan and Cold Wave conditions in isolated pockets over Punjab, Haryana, Chandigarh during 25th-27th January and over West Uttar Pradesh and West Madhya Pradesh during 26th-27th January, 2021.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rain/Snow observed (from 0830 hours IST to 1730 hours IST of yesterday): at isolated places over Jammu, Kashmir, Ladakh, Gilgistan, Baltistan & Muzaffarabad and Himachal Pradesh.
- Yesterday, Cold Day to Severe Cold Day conditions observed in isolated pockets over Haryana; Cold Day conditions observed at many places over Haryana, Chandigarh & Delhi and at isolated pockets over Punjab & Uttar Pradesh.
- Fog observed (at 0530 hours IST of today): Dense to very dense fog observed in many pockets over East Uttar Pradesh and Bihar; in isolated pockets over Sub-Himalayan West Bengal & Sikkim, Chandigarh, Tripura and North Odisha and Moderate Fog observed in isolated pockets over Punjab, Haryana & Delhi(

Safdarjung & Palam), Himachal Pradesh, Uttarakhand, East Rajasthan, north Madhya Pradesh and Assam & Meghalaya.

- Maximum Temperature Departures as on 24-01-2021: Maximum temperatures were markedly above normal (5.1°C or more) at isolated places over East Madhya Pradesh; appreciably above normal (3.1°C to 5.0°C) at many places over and Jharkhand, Odisha, Chhattisgarh and Vidarbha; at a few places over Coastal Karnataka; above normal (1.6°C to 3.0°C) at most places over Marathwada; at many places over Assam & Meghalaya, Madhya Maharashtra and Coastal Andhra Pradesh & Yanam; at a few places over Telangana; at isolated places over Gangetic West Bengal, Saurashtra & Kutch and Tamil Nadu, Puducherry & Karaikal. They were markedly below normal (-5.1°C or less) at most places over Haryana, Chandigarh & Delhi; at isolated places over Uttar Pradesh and Bihar; appreciably below normal (-3.1°C to -5.0°C) at isolated places over Punjab and Sub-Himalayan West Bengal & Sikkim; below normal (-1.6°C to -3.0°C) at a few places over Rajasthan; at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, West Madhya Pradesh and Andaman & Nicobar Islands and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 35.1°C was reported at Karwar (Coastal Karnataka) over the country.
- Minimum Temperature Departures as on 24-01-2021: Minimum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over Haryana, Chandigarh & Delhi, Madhya Maharashtra, Madhya Pradesh, Telangana and Tamil Nadu, Puducherry & Karaikal; above normal (1.6°C to 3.0°C) at most places over Vidarbha and Marathawada; at many places over Himachal Pradesh, Punjab, Bihar, Coastal Andhra Pradesh & Yanam, Karnataka and Kerala & Mahe; at a few places over Odisha; at isolated places over Uttar Pradesh, Chhattisgarh, West Bengal & Sikkim and Konkan & Goa. They were below normal (-1.6°C to -3.0°C) at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Saurashtra & Kutch, Gangetic West Bengal and Andaman & Nicobar Islands and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 4.4°C was reported at Churk (East Uttar Pradesh) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 25 January (Day 1): Dense Fog in some pockets with Very Dense Fog in isolated pockets very likely over Punjab, Haryana, Chandigarh, Uttar Pradesh and Bihar; Dense to Very Dense Fog in isolated pockets over north Rajasthan, SubHimalayan West Bengal & Sikkim and Dense Fog in isolated pockets over plains of

Uttarakhand, north West Madhya Pradesh, Jammu division, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal and Odisha. Cold Day to Severe Cold Day conditions in isolated pockets very likely over East Uttar Pradesh and Cold Day conditions in isolated pockets over Punjab, Haryana, Chandigarh & Delhi and West Uttar Pradesh. Cold Wave conditions in isolated pockets very likely over Saurashtra & Kutch, north Rajasthan, Punjab and Haryana, Chandigarh & Delhi.

- 26 January (Day 2): Dense to Very Dense Fog in isolated pockets very likely over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh and Bihar and Dense Fog in isolated pockets over plains of Uttarakhand, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Cold Day conditions in isolated pockets very likely over Uttar Pradesh. Cold Wave to severe Cold Wave conditions in isolated pockets very likely over north Rajasthan and Cold Wave conditions in isolated pockets over Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, West Madhya Pradesh and Saurashtra & Kutch.
- 27 January (Day 3): Dense to Very Dense Fog in isolated pockets likely over Punjab, Haryana, Chandigarh & Delhi and Uttar Pradesh and Dense Fog in isolated pockets over Bihar. Cold Wave to severe Cold Wave conditions in isolated pockets likely over north Rajasthan and Cold Wave conditions in isolated pockets over Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh and West Madhya Pradesh.
- 28 January (Day 4): No Weather Warning.
- 29 January (Day 5): No Weather Warning.
- The weather outlook for seven days i.e., 25 January to 02 February 2021 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)

Western U.P

Weather condition:

Weather will be mainly dry during these days, no rainfall forecast from 20 to 24 January 2021 . Maximum temperature may be expected near to its normal and minimum temperature may be expected 1-2 0C lower than its normal. Wind velocity range may be expected 6.0 to 13.0 kmph prevailing NW/ NE which may be 2.0 to 5.0 kmph above from the normal during the coming week as per forecast.

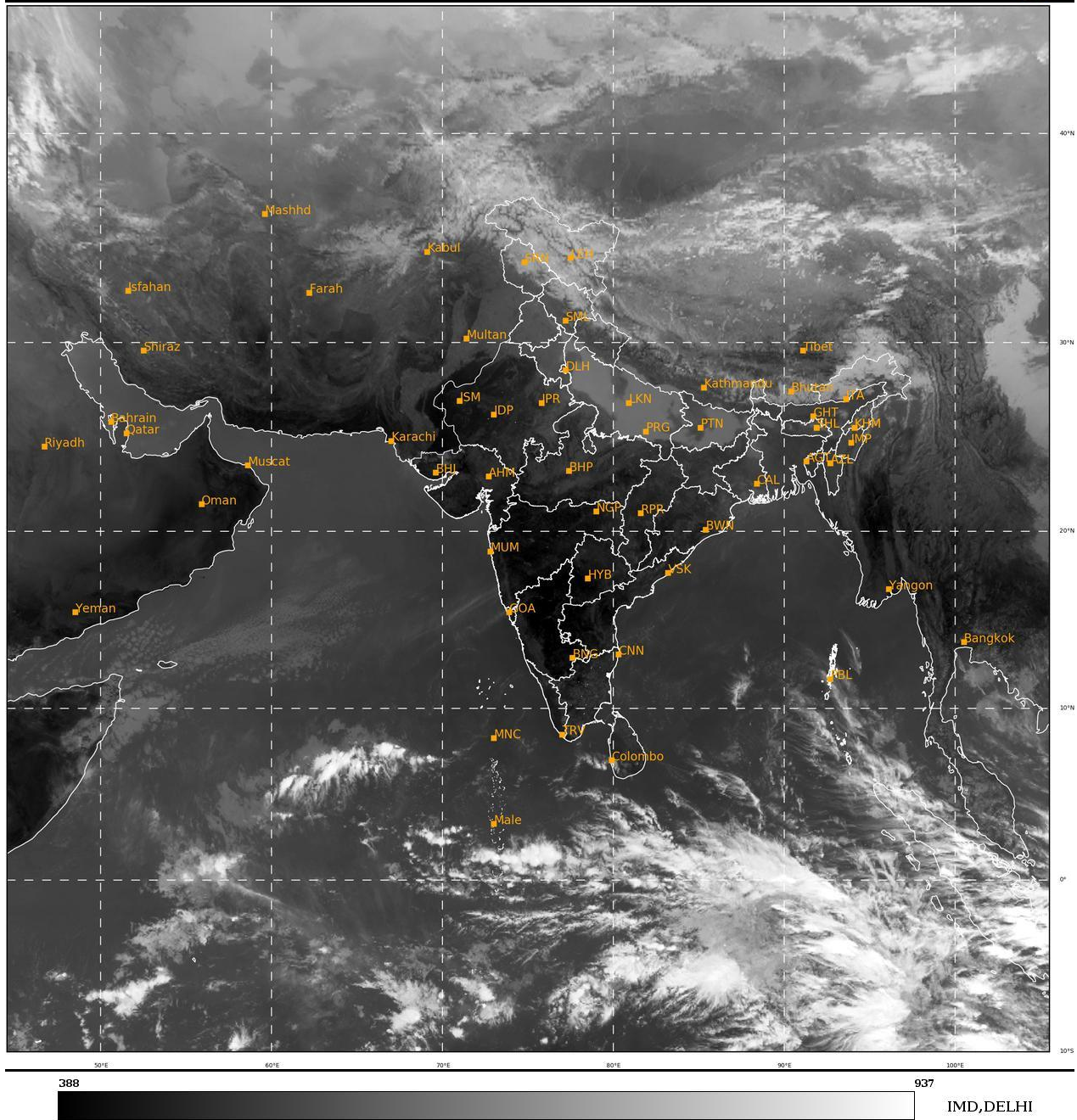
Contingency measure:

- Wheat:Light irrigation should be taken up at CRI and tillering which is critical stages of the crop. Top dressed $\frac{1}{4}$ Urea after irrigation at optimum moisture during CRI stage . For control of grassy leaved weed spray Clodinafop-propargyl 15% WP @ 400 g/ha, grassy and broad leaved weed spray Sulphosulphuron 75% wp @ 33g/ha with 500-600 lt of water. Sulphosulphuron 75% wp @ 33g/ha + metsulphuron methyl 20% wp@ 4 g/ha with 300 lt of water solution is to be applied for control of mixed weed flora.
- Barley :Irrigation can be taken up after 30-35 days of sowing in barley crop. Top dressed 60 kg/ha Urea after first irrigation at optimum moisture. Sulfosulphuron 75% wp @ 33g/ha or Metribuzine 70 wp @ 250g/ha with 500 lt. water spray after first irrigation at optimum moisture for control of mixed weeds.
- Rabi maize:Irrigation should be done and top dressed remaining dose of Urea.
- Pigeon pea: Spray 2% Potash solution for the prevention of the crop from the frost.
- Pea:Spray 2.0 g Mancozeb with 1.0 lt. water solution to protect from Powdery mildew as per need.
- Gram : Spray 2% Potash solution for the prevention from the frost. Nipping must be taken up after 45 DOS. Lentil: Spray 2% potash solution for the prevention of the frost crop.
- Mustard :Farmers are advised irrigation should be taken up and top dressed $\frac{1}{4}$ Urea at optimum moisture.
- Linseed :Farmers are advised irrigation should be taken up and weeding should be taken up.
- Brinjal / Chilies: Pick up mature fruits in standing crop, watching insect & pests. If seen spray 0.5% Neem oil.
- Leafy Vegetable :Cutting , marketing.

- Potato : Dig out early sown crop. Take precaution from late blight and Aphid , spray Copper oxichloride 3.0 kg/ha with 700-800 lt. water solution or 2.0 g /lt water Mancozeb.
- Barseem :Second cutting should be taken up .
- Animal:Balanced diet should be given for milch animal. Paddy straw or ash as litter in animal houses to be used to protect cow/ buffalo calf from the cold. The routine immunization of animals is to be done as per the advice of Veterinary doctor .

SAT : INSAT-3D IMG
IMG_TIR1 10.8 um
LIC Mercator

25-01-2021/(0730 to 0757) GMT
25-01-2021/(1300 to 1327) IST



**Figure: 1. Latest available satellite picture as on 25 January 2021 at 1327 Hrs (IST).
(Source: IMD).**

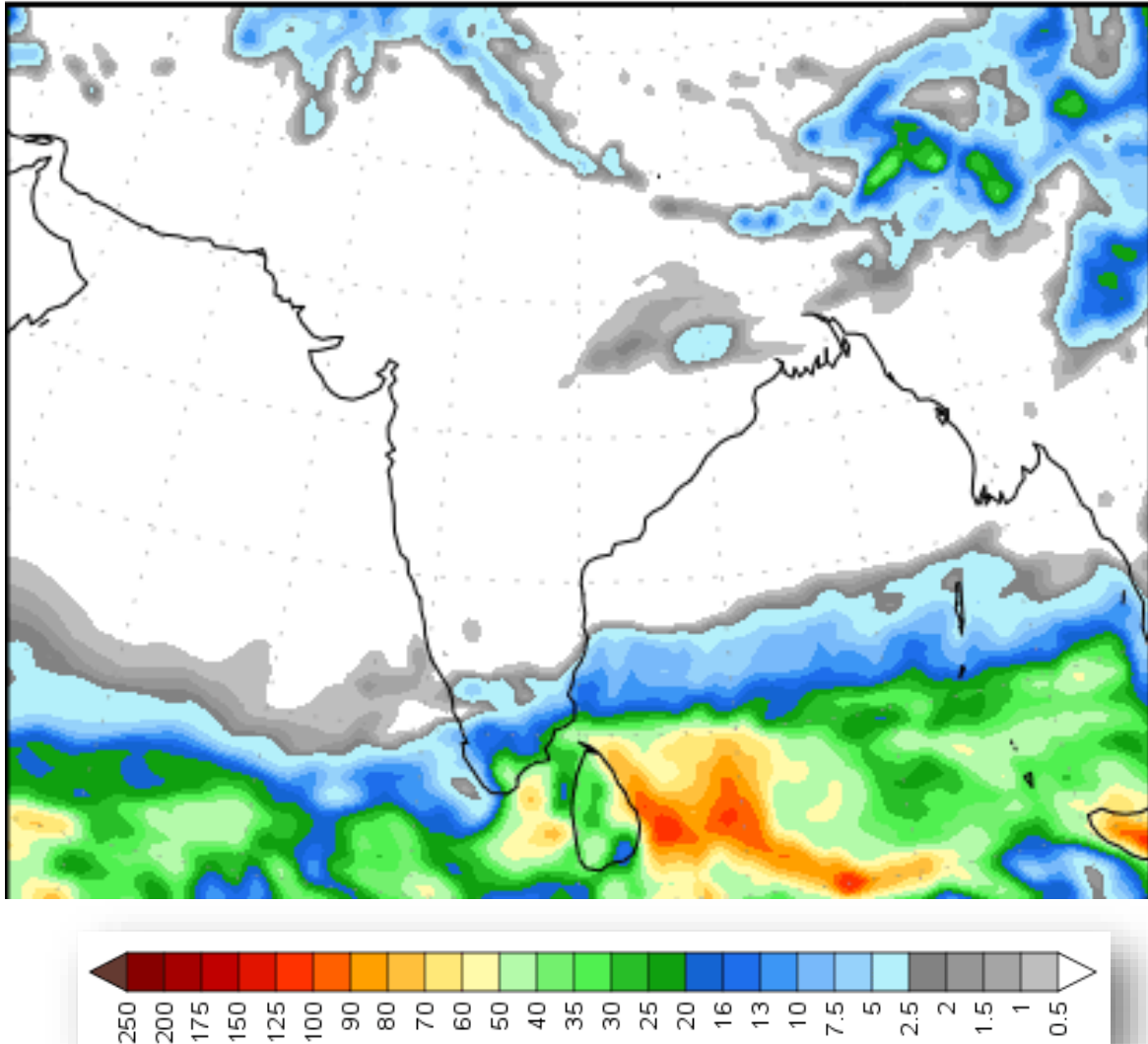


Figure:2. Precipitation forecast for 25 Jan to 02 February 2021 (Source: NOAA NCEP).

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