

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 03 February 2022

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Western Disturbance lies as a cyclonic circulation over north Pakistan & neighbourhood between 3.1 to 5.8 km above mean sea level with the trough aloft in middle & upper tropospheric levels with its axis at 7.6 km above mean sea level roughly along Long. 71°E to the north of Lat. 25°N. An induced Low Pressure Area lies over northwest Rajasthan & neighbourhood and associated cyclonic circulation in lower tropospheric levels. High moisture feeding from Arabian Sea and Bay of Bengal to northwest India at lower & middle tropospheric levels is very likely to continue during next 24 hours.
- Under its influence:
 - i) Fairly widespread to widespread light/moderate rainfall/snowfall very likely to continue over Western Himalayan Region on 03rd & 04th February. Isolated hailstorm very likely over Himachal Pradesh on 03rd and over Uttarakhand on 03rd & 04th February, 2022.
 - ii) Isolated heavy rainfall/snowfall also very likely over Jammu, Kashmir, Ladakh, GilgitBaltistan & Muzaffarabad and Himachal Pradesh on 03rd and over Uttarakhand on 03rd & 04th February, 2022.
 - iii) Fairly widespread to widespread light/moderate rainfall very likely over Punjab, Haryana, Chandigarh, Delhi and Uttar Pradesh on 03rd February and light isolated on 04th February. Isolated heavy rainfall very likely over Punjab, Haryana & Chandigarh on 03rd February, 2022.
- The WD and its induced Cyclonic Circulation/Low is very likely to move east-northeastwards during next two days, as a result there will be high moisture feeding from Bay of Bengal to East & adjoining northeast India on 03rd & 04th February, 2022 due to confluence between westerlies and southeasterlies from the Bay of Bengal at lower tropospheric levels.
- As a result:
 - i) Fairly widespread to widespread light/moderate rainfall with thunderstorm/lightning likely over Bihar & Jharkhand on 03rd & 04th and over West Bengal & Sikkim and Odisha on 04th with possibility of isolated hailstorm

over the region 04th February. Isolated heavy rainfall also likely over Bihar, Jharkhand and West Bengal & Sikkim on 04th February, 2022.

ii) Widespread light/moderate rainfall with thunderstorm/lightning likely over northeast India on 04th & 05th February, 2022. Isolated heavy rainfall/snowfall likely over Arunachal Pradesh on 04th & 05th and heavy rainfall over west Assam & Meghalaya on 04th February, 2022. Isolated hailstorm also likely over West Assam & Meghalaya on 03rd & 04th and over Arunachal Pradesh on 04th February, 2022.

- Under the influence of a fresh Western Disturbance; isolated to scattered rainfall/snowfall very likely over Western Himalayan Region on 06th & 07th February, 2022.
- Dense Fog conditions in isolated pockets in night/morning hours very likely over Punjab and Haryana, Chandigarh & Delhi on during next 2 days.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rainfall/thundershower observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at most places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh; at many places over Punjab; at a few places over Arunachal Pradesh, Sub-Himalayan West Bengal, Uttarakhand, Haryana, Chandigarh & Delhi and at isolated places over West Rajasthan, West Uttar Pradesh, Nicobar Islands, Assam & Meghalaya, Manipur, Mizoram, Coastal Andhra Pradesh and Kerala & Mahe.
- Cold Day to Severe Cold Day conditions prevailed in isolated pockets over northwest & East Uttar Pradesh.
- Fog observed (during 0530-0830 hours IST of today): Dense to Very Dense Fog in isolated pockets over East Uttar Pradesh and Gangetic West Bengal; Dense Fog in isolated pockets over north Coastal Odisha, Goa and Moderate Fog in isolated pockets over Bihar, Sub-Himalayan West Bengal and Tripura.
- Minimum Temperature Departures (as on 03-02-2022): Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at most places over East Rajasthan and Gujarat state; at many places over Punjab, West Rajasthan, Gangetic West Bengal; above normal (1.6°C to 3.0°C) at most places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttarakhand, Haryana, Chandigarh & Delhi, Kerala & Mahe; at many places over East Uttar Pradesh, West Madhya Pradesh and South Interior Karnataka; at a few places isolated places over East Madhya Pradesh, Odisha, Telangana and Tamil Nadu, Puducherry & Karaikal.

They are below normal (-1.6°C to -3.0°C) at a few places over Andaman & Nicobar Islands, SubHimalayan West Bengal & Sikkim; at isolated places over North Interior Karnataka and near normal over rest parts of the country. Today, the Lowest minimum temperature of 7.9°C reported at Meerut (West Uttar Pradesh) over the plains of the country.

- Maximum Temperature Departures (as on 02-02-2022): Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over West Rajasthan; at a few places over East Rajasthan; at isolated places over West Madhya Pradesh; above normal (1.6°C to 3.0°C) at most places over Jharkhand and Interior Karnataka; at many places over East Madhya Pradesh and Kerala & Mahe; at a few places over Gujarat state, Madhya Maharashtra, Marathwada, Telangana and Rayalaseema; at isolated places over Vidarbha, Odisha, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal. They were markedly below normal (-5.1°C or less) at isolated places over East Uttar Pradesh; appreciably below normal (-3.1°C to -5.0°C) at a few places over Uttarakhand, West Uttar Pradesh and Sub-Himalayan West Bengal & Sikkim; at isolated places over Himachal Pradesh and Assam & Meghalaya; below normal (-1.6°C to -3.0°C) at many places over Punjab and Nagaland, Manipur, Mizoram & Tripura; at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan Muzaffarabad, Haryana, Arunachal Pradesh and Andaman & Nicobar Islands and near normal over rest parts of the country. Yesterday, the Highest maximum temperature of 36.4°C was reported at Punalur (Kerala) over the country.

Weather Warning during the next 5 days (IMD)

- 3 February (Day 1): Heavy rainfall/snowfall at isolated places very likely over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh and Uttarakhand and heavy rainfall at isolated places over Punjab and Haryana-Chandigarh. Thunderstorm accompanied with lightning and hail at isolated places very likely over Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh, Bihar and Assam & Meghalaya and with lightning at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, East Rajasthan, East Madhya Pradesh, Jharkhand, West Bengal & Sikkim and Odisha. Dense Fog in isolated pockets very likely over Punjab and Haryana-Chandigarh-Delhi.
- 4 February (Day 2): Heavy rainfall/snowfall at isolated places very likely over Uttarakhand and Arunachal Pradesh and heavy rainfall at isolated places over Bihar, Jharkhand, West Bengal & Sikkim and west Assam & Meghalaya. Thunderstorm with lightning and hail at isolated places very likely over Uttarakhand, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Arunachal

Pradesh and Assam & Meghalaya and with lightning at isolated places over East Uttar Pradesh, Chhattisgarh and Nagaland, Manipur, Mizoram & Tripura. Dense Fog in isolated pockets very likely over Punjab, Haryana-Chandigarh-Delhi.

- 5 February (Day 3): Heavy rainfall/snowfall at isolated places very likely over east Arunachal Pradesh. Thunderstorm with lightning at isolated places very likely over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- 6 February (Day 4): No Weather Warning.
- 7 February (Day 5): No Weather Warning.
- The weather outlook for seven days i.e., 03 Feb to 11 Feb 2022 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:

As per forecast clear sky appearing during this week and no rainfall forecast from 29 January to 2 February, 2022. Maximum temperature may be expected 1-20C lower to its normal and minimum temperature may be expected near to its normal. Where as wind velocity range may be expected 5.0 to 12.0 kmph prevailing NW which may be 2 to 3 kmph above the normal during coming days as per forecast.

Contingency measure:

- Wheat:Clear weather appearing during this week farmers are advised light irrigation should be given at tillering and jointing stage of wheat crops, top dress urea at optimum moisture. For control of grassy leaved weed spray Clodinafop-propargyl 15% WP @ 400 g/ha, grassy and broad leaved weed spray Sulfosulfuron 75% wp @ 33g/ha with 500-600 lt of water. Sulfosulfuron 75% wp @ 33g/ha + metsulfuron methyl 20% wp@ 4 g/ha with 300 lt of water solution is to be applied for control of mixed weed flora.
- Barley:3.0 mm rainfall occurred during last week farmers are advised under rain-fed areas top dress urea at optimum moisture during PI stage.
- Rabi maize:Top dress urea knee height stage at proper moisture available in soil.
- Pigeon pea:Spray 2% Potash solution for the prevention of the crop from the frost and fog.
- Pea:For protection from Pod borer and Semi lopper, spray Fenvelret 0.4% DP 20-25 kg/ha or Quinalfos 25% EC 2.0 lt/ha or Malathion 50 % Ec 2.0 lt/ha with 500

to 600 lt water . Spray Soluble Sulpher (80%) 2.0 kg/ha or Tridemark 80 %EC with 500-600 lt. water solution to protect from Powdery mildew.

- 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 fog and frost crop.
- Mustard:Farmers are advised top dressed $\frac{1}{4}$ Urea at optimum moisture.Watchful for Aphid infestation if need spray Malathion 5% WP @ 20-25 kg/ha. Linseed Vegetative/ Flowering Farmers are advised 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 ,watchful insect and pest.
- Potato:Dig out early sown crop. Take precaution from late blight and Aphid, spray Copper oxichloride 3.0 kg/ha with 500-600 lt. water solution or 2.0 g /lt water Mancozeb.
- Barseem:Second cutting should be taken up and top dressing of 20 kg urea at optimum moisture.
- 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 and rain. 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

03-02-2022/(0800 to 0826) GMT
03-02-2022/(1330 to 1356) IST

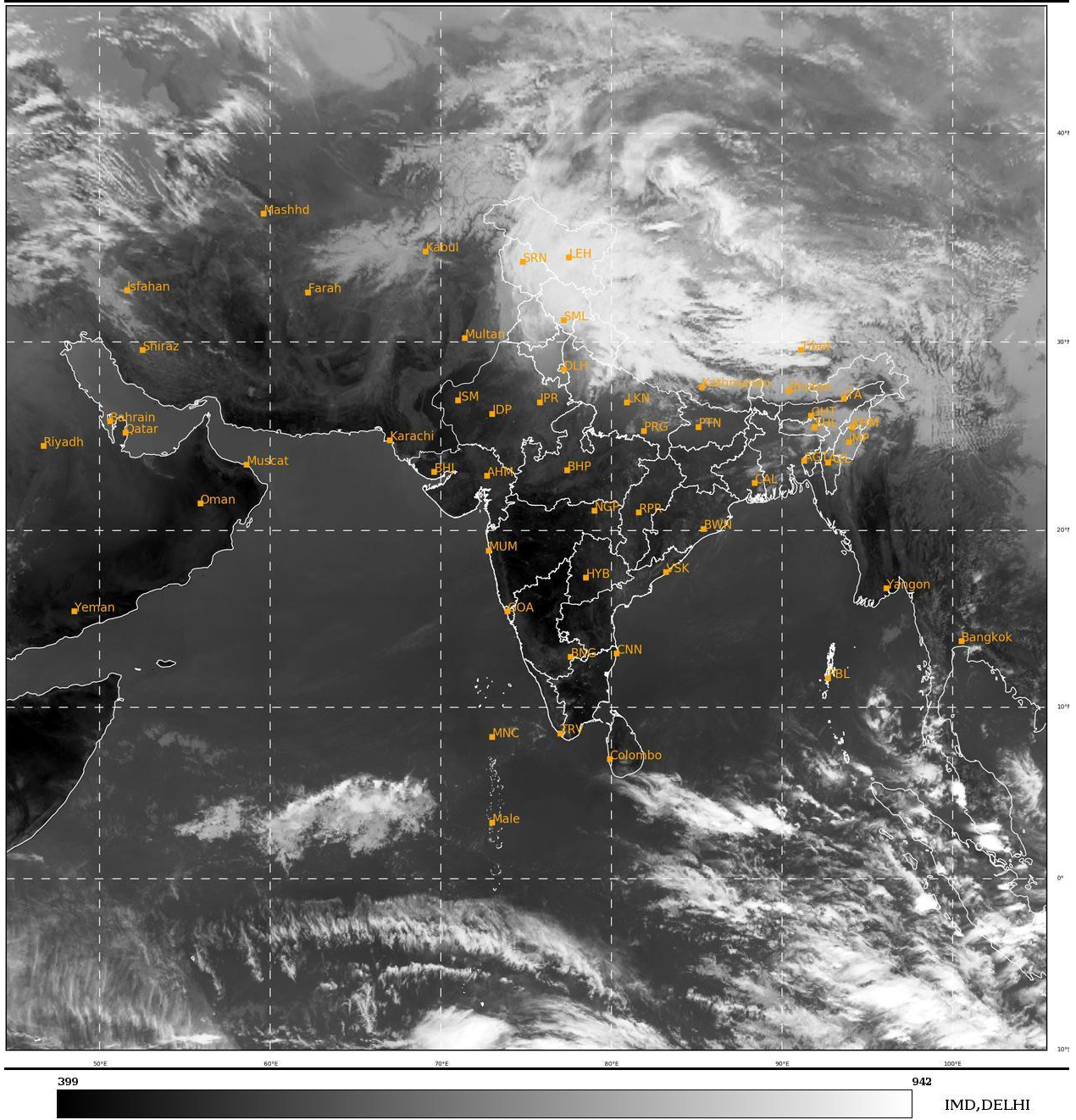


Figure: 1. Latest available satellite picture as on 03 Feb 2022 at 1356 Hrs (IST). (Source: IMD).

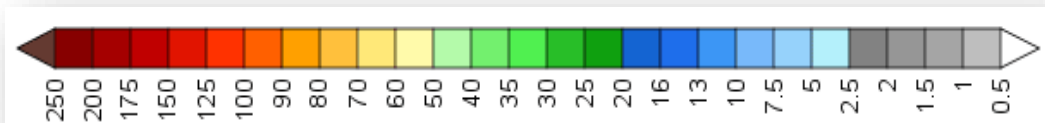
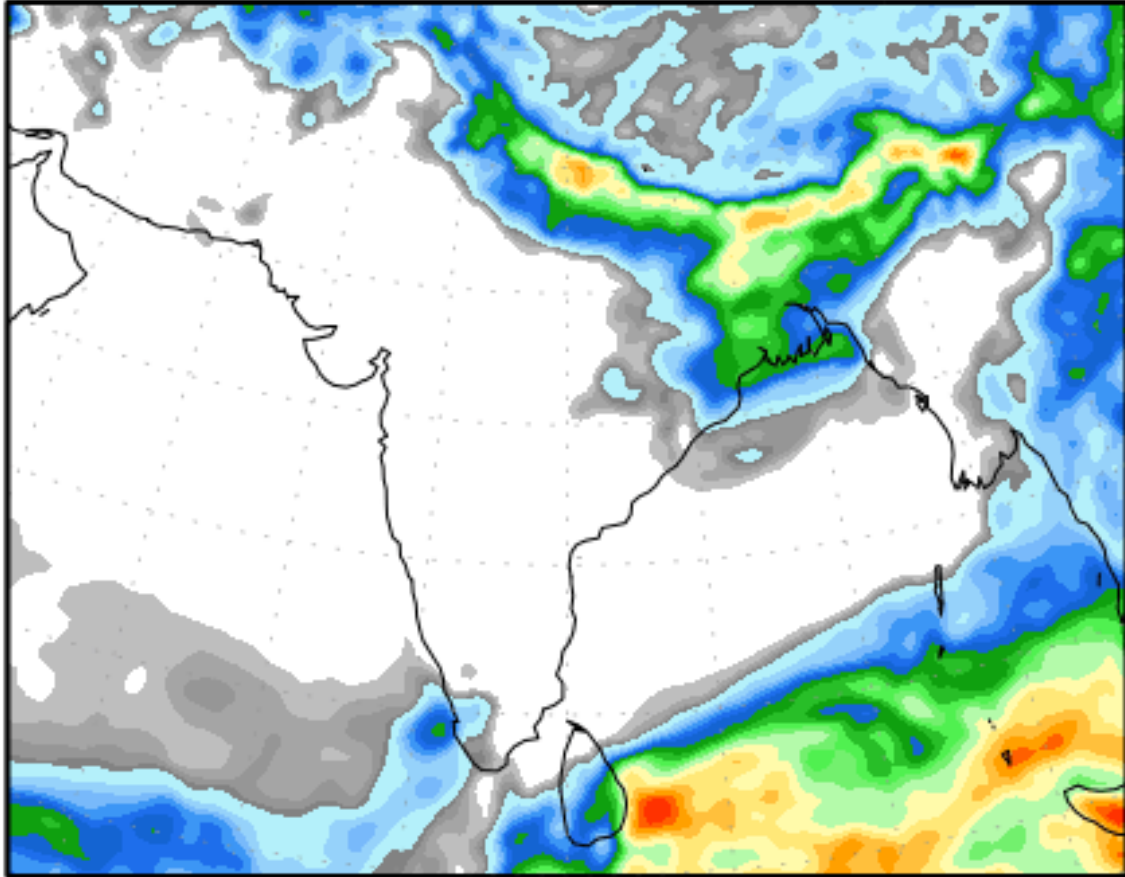


Figure:2. Precipitation forecast for 03 Feb to 11 Feb 2022 (Source: NOAA NCEP).

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