

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 27 January 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Dry northwesterly winds over plains of North India & adjoining parts of central India are likely to prevail during next 3-4 days. Under its influence:
 - (i) Cold Day to Severe Cold Day conditions in isolated/some pockets very likely over Uttarakhand, Uttar Pradesh & Bihar during next 2-3 days and over Madhya Pradesh during next 24 hours.
 - (ii) Cold Wave to Severe Cold Wave conditions in some to many pockets very likely over Punjab and Haryana & Chandigarh during next 3-4 days and decrease thereafter. Cold Wave conditions in isolated pockets very likely over Uttar Pradesh, Rajasthan, Madhya Pradesh and Saurashtra & Kutch during next 3-4 days and decrease thereafter.
 - (iii) Ground Frost conditions in isolated places very likely over Punjab, Haryana and north Rajasthan during next 2 days.
- Dense to Very Dense Fog in isolated/some pockets very likely over Uttarakhand, Punjab, Haryana & Chandigarh and Uttar Pradesh during next 3-4 days. Dense Fog in isolated pockets also very likely over Bihar, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and Tripura during next 2-3 days; over north Madhya Pradesh during next 24 hours and over Odisha during 29th-31st January, 2021.
- A fresh Western Disturbance is likely to affect Western Himalayan Region from 01st February onwards. Under its influence isolated to scattered rain/snow with moderate thunderstorm & lightning likely over the region during 01st-03rd February, 2021.
- 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 Andaman & Nicobar Islands and isolated places over Arunachal Pradesh.

- Today, Cold Wave conditions observed in some pockets over West Madhya Pradesh and East Rajasthan and in isolated pockets over Uttarakhand, Punjab, Uttar Pradesh, West Rajasthan and East Madhya Pradesh.
- Yesterday, Cold Day to Severe Cold Day conditions observed in many pockets of East Uttar Pradesh; in isolated pockets over West Uttar Pradesh. Cold Day conditions observed in some pockets of Bihar & Madhya Pradesh and in isolated pockets of East Rajasthan.
- Fog observed (at 0830 hours IST of today): Dense to very dense fog observed in isolated pockets over East Uttar Pradesh; Dense fog in isolated pockets over Himachal Pradesh, Haryana, West Uttar Pradesh, north Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim and Bihar and Moderate Fog observed in isolated pockets of Punjab and Tripura.
- Maximum Temperature Departures as on 26-01-2021: Maximum temperatures were above normal (1.6°C to 3.0°C) at many places over Himachal Pradesh, Telangana and South Interior Karnataka; at a few places over Arunachal Pradesh, Odisha, Coastal Andhra Pradesh & Yanam, Chhattisgarh and Coastal Karnataka and at isolated places over Assam & Meghalaya, Madhya Maharashtra, Marathwada, Konkan & Goa and Tamil Nadu, Puducherry & Karaikal. They were markedly below normal (-5.1°C or less) at most places over East Uttar Pradesh and Bihar; at many places over West Uttar Pradesh; at a few places over Madhya Pradesh; appreciably below normal (-3.1°C to -5.0°C) at many places over Sub-Himalayan West Bengal & Sikkim, Haryana, Chandigarh & Delhi, East Rajasthan and Gujarat Region; at a few places over Saurashtra & Kutch; below normal (-1.6°C to -3.0°C) at a few places over Andaman & Nicobar Islands and Gangetic West Bengal and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, West Rajasthan, North Interior Karnataka and Kerala & Mahe and are near normal over rest parts of the country. Yesterday, the highest maximum temperature of 35.4°C was reported at Karwar (Coastal Karnataka) over the country.
- Minimum Temperature Departures as on 27-01-2021: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at a few places over Jharkhand; at isolated places over Odisha; above normal (1.6°C to 3.0°C) at most places over Andaman & Nicobar Islands; at a few places over Telangana, North Interior Karnataka and Coastal Andhra Pradesh & Yanam; at isolated places over Madhya Maharashtra and Assam & Meghalaya. They are markedly below normal (-5.1°C or below) at a few places over East Rajasthan; at isolated places over West Madhya Pradesh appreciably below normal (-3.1°C to -5.0°C) at many places over

Saurashtra & Kutch; at a few places over Haryana, Chandigarh Delhi, East Madhya Pradesh; at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh and Bihar; below normal (-1.6°C to -3.0°C) at most places over Punjab, Uttar Pradesh and Gujarat region; at a few places over Konkan & Goa, South Interior Karnataka and Sub-Himalayan West Bengal & Sikkim; at isolated places over Kerala & Mahe and Tamilnadu, Puducherry & Karaikal and near normal over rest parts of the country. Today, the lowest minimum temperature of 1.4°C reported at Amritsar (Punjab) over the plains of the country.

- Today, Ground Frost conditions observed in isolated pockets over Punjab, Haryana, Rajasthan, Uttar Pradesh and Madhya Pradesh

Weather Warning during the next 5 days (IMD)

- 27 January (Day 1): Dense to Very Dense Fog in some pockets very likely over East Uttar Pradesh; in isolated pockets over Punjab, West Uttar Pradesh, Haryana & Chandigarh. Dense Fog in isolated pockets over Uttarakhand, Bihar, north Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and Tripura. Cold Day to Severe Cold Day conditions in some pockets very likely over East Uttar Pradesh; in isolated pockets over West Uttar Pradesh. Cold Day conditions in some pockets over Bihar and in isolated pockets over Uttarakhand and Madhya Pradesh. Cold Wave to Severe Cold Wave conditions in many pockets very likely over Punjab, Haryana & Chandigarh; in isolated pockets over East Rajasthan. Cold Wave conditions in isolated pockets over Uttar Pradesh, West Rajasthan, Madhya Pradesh and Saurashtra & Kutch. Ground Frost conditions at isolated places very likely over Punjab, Haryana and north Rajasthan.
- 28 January (Day 2): Dense to Very Dense Fog in some pockets very likely over East Uttar Pradesh; in isolated pockets over Punjab, West Uttar Pradesh, Haryana & Chandigarh. Dense Fog in isolated pockets over Uttarakhand, Bihar, SubHimalayan West Bengal & Sikkim, Assam & Meghalaya and Tripura. Cold Day to Severe Cold Day conditions in some pockets very likely over East Uttar Pradesh; in isolated pockets over West Uttar Pradesh. Cold Day conditions in isolated pockets over Uttarakhand and Bihar. Cold Wave to Severe Cold Wave conditions in many pockets very likely over Punjab, Haryana & Chandigarh; in isolated pockets over East Rajasthan. Cold Wave conditions in isolated pockets over Uttar Pradesh, West Rajasthan, Madhya Pradesh and Saurashtra & Kutch. Ground Frost conditions at isolated places very likely over Punjab, Haryana and north Rajasthan.

- 29 January (Day 3): Dense Fog in isolated pockets very likely over Uttarakhand, Punjab, Uttar Pradesh, Haryana & Chandigarh, Odisha, Assam & Meghalaya and Tripura. Cold Day conditions in isolated pockets very likely over Uttar Pradesh. Cold Wave to Severe Cold Wave conditions in some pockets very likely over Punjab, Haryana & Chandigarh; in isolated pockets over East Rajasthan. Cold Wave conditions in isolated pockets over Uttar Pradesh, West Rajasthan, Madhya Pradesh and Saurashtra & Kutch. Thunderstorm accompanied with lightning and hail at isolated places very likely over Arunachal Pradesh, Assam & Meghalaya and Nagaland.
- 30 January (Day 4): Dense Fog in isolated pockets likely over Uttar Pradesh and Odisha. Cold Wave conditions in isolated pockets likely over Punjab, Haryana & Chandigarh, Uttar Pradesh and East Rajasthan. Thunderstorm accompanied with lightning and hail at isolated places likely over Arunachal Pradesh, Assam & Meghalaya and Nagaland.
- 31st January (Day 5): Dense Fog in isolated pockets likely over Uttar Pradesh and Odisha. Cold Wave conditions in isolated pockets likely over Punjab, Haryana & Chandigarh and Uttar Pradesh.
- The weather outlook for seven days i.e., 27 January to 04 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)

Gujarat

Weather condition:

The actual maximum temperature was 1.4 °C and Actual minimum temperature was 2.8 °C higher as compared to its normal. Total BSS was 60.5 hrs. with an average of 8.6 hrs. The daily average evaporation and wind speed was 2.8 mm and 1.8 km/hr respectively. The daily average RH during morning and afternoon was 91.1 % and 44.4 % respectively.

Contingency measure:

- Wheat : Tillering/Booting : Termite : To control termite apply chlorpyriphos 20 EC 2 to 2.5 liter/ha with irrigation water. Stem Borer : If wheat stem borer infestation observed spray carbaryl 50% WP 40 gm or Quinalphos 25 EC 20 ml spray in 10 liter water. Carried out weeding and interculturing operations in late sown crop.
- Mustard : Pod development : Apply irrigation according to soil type and climatic condition. Aphid: Apply 500 gm (5% arc) neem seed powder or 20 ml (1 EC) to 40 ml (0.15 EC) neem based readymade solution in 10 liter water in evening time. For control of powdery mildew of mustard, spray sulfur 80 WP 25 g or Dinocap 48 EC 5 ml or Hexaconazole 5 EC 5 ml per 10 liter water. Spray should be done after 15 days interval according to intensity of disease.
- Pigeon pea: Pod development : Heliothis and Pod fly : Apply Quinalphos 25 Ec 20 ml in 10 liter water on pods to control pod fly.
- Tobacco : Carried out topping operation at flowering initiation stage. De-suckuring should be done regularly.
- Gram: vegetative: inter-culturing and Hand weeding should be done. Apply irrigation, if required. Nipping should be done.
- Vegetables : Flowering/Reproductive : For the control of White fly/Aphid Spray neem seed extract 500 ml or neem seed oil 50 ml in 10 liter of water at 15 days interval (4 sprays) or Acetamiprid 20 % SP@ 5.0 gm/10 liter water at 15 days interval.
- Tomato: Vegetative Growth: there is possibility of incidence of spotted wilt virus, spray Carbendenzim (50 % WP) 5 g in 10 liter water at 10 to 12 days interval.
- Cattle: Keep animal shed hygienic and clean to avoid flies and mosquitoes. Disease (like, Anthracis, milk fever and Brucellosis) infected animals to regular check-up and regular vaccination for the animal.

SAT : INSAT-3D IMG
IMG_TIR1 10.8 um
L1C Mercator

27-01-2021/(0800 to 0827) GMT
27-01-2021/(1330 to 1357) IST

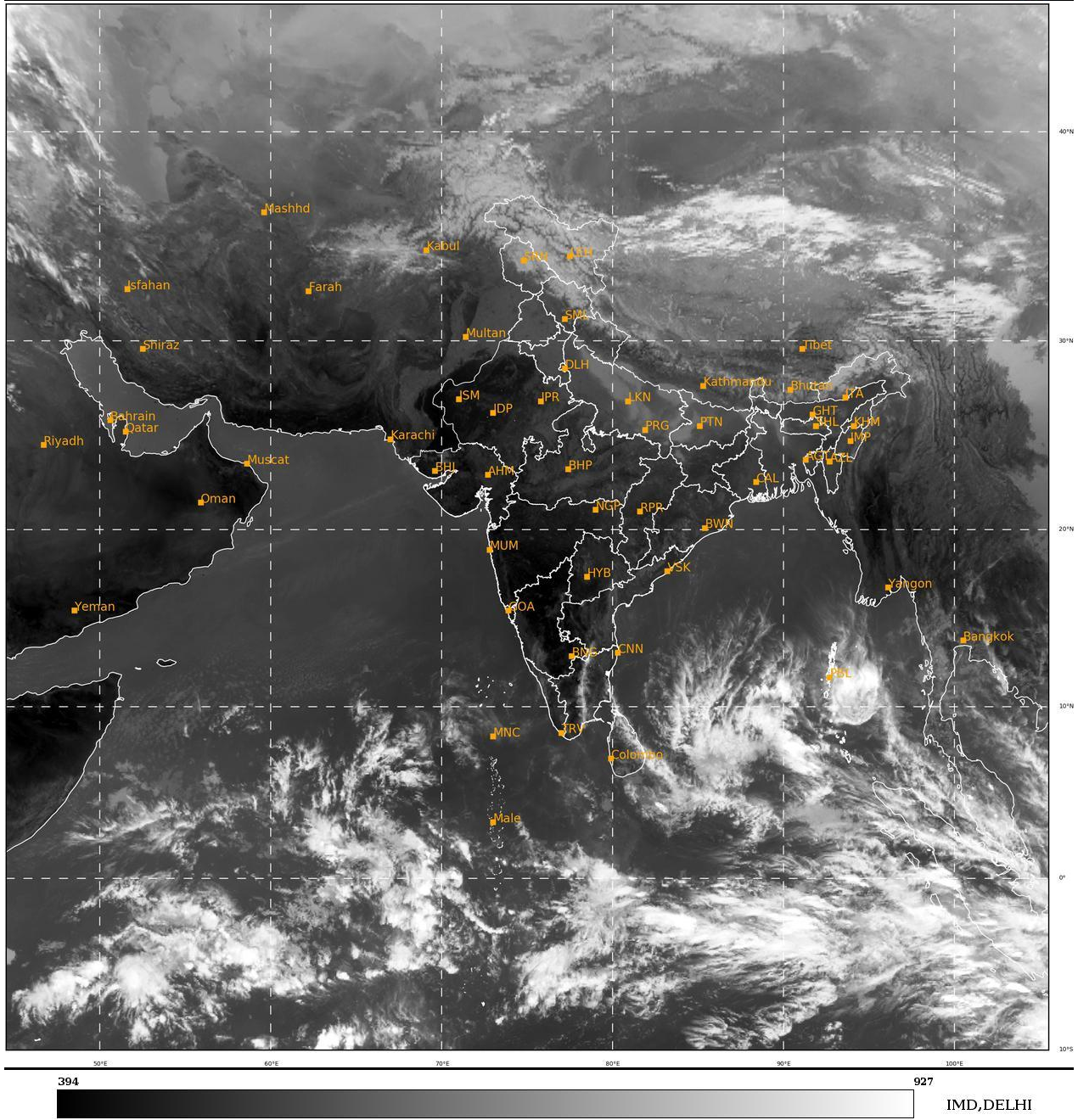


Figure: 1. Latest available satellite picture as on 27 January 2021 at 1357 Hrs (IST). (Source: IMD).

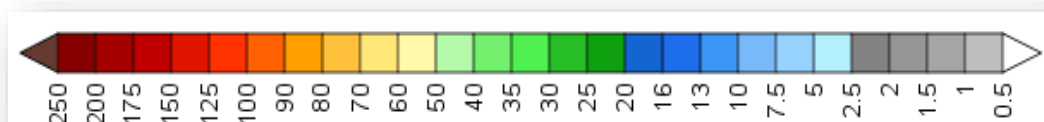
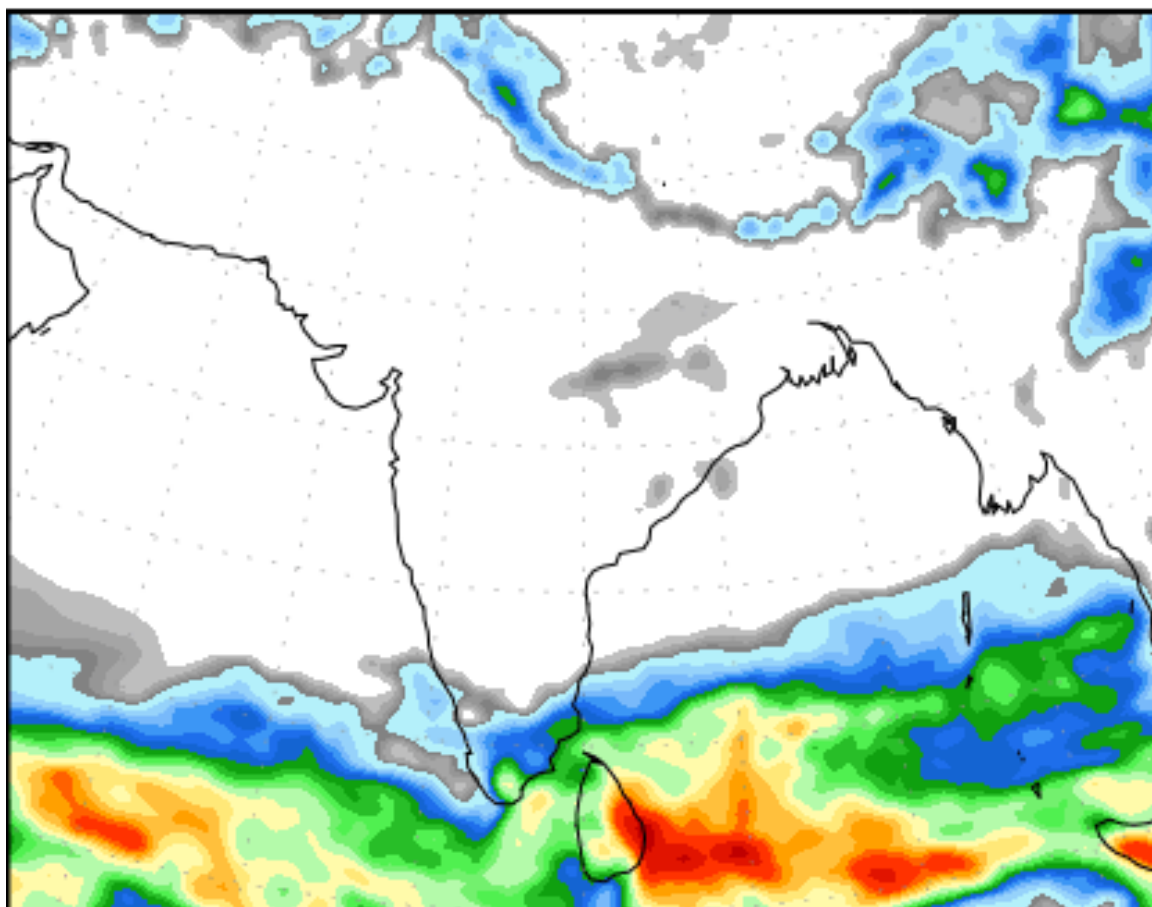


Figure:2. Precipitation forecast for 27 Jan to 04 February 2021 (Source: NOAA NCEP).

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