

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 20 January 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A fresh Western Disturbance is likely to affect Western Himalayan Region from 22nd January. Under its influence, scattered to fairly widespread rain/snow likely over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Himachal Pradesh and isolated rain/snow over Uttarakhand during 22nd-24th and very light/light rain/thundershower likely at isolated places over Punjab and Haryana, Chandigarh & Delhi on 23rd January, 2021. Heavy rain/snow very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad on 23rd January, 2021. Isolated thunderstorm with lightning & hail also likely over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad on 22nd and over Himachal Pradesh and Uttarakhand on 23rd January, 2021.
- Dense to very dense Fog in isolated pockets very likely over Punjab, Haryana, Chandigarh & Delhi during next 2 days; over Uttar Pradesh and West Rajasthan during next 24 hours and over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 22nd-24th January, 2021 and Dense fog in isolated pockets over Bihar during next 3 days; over Odisha and Sub-Himalayan West Bengal & Sikkim during next 24 hours. Cold Day to Severe Cold Day conditions in isolated pockets very likely over Punjab, Haryana & Chandigarh and West Rajasthan during 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 many places over Arunachal Pradesh; at a few places over Assam & Meghalaya and Sub-Himalayan West Bengal & Sikkim and at isolated places over Tamil Nadu, Puducherry & Karaikal and Andaman & Nicobar Islands.
- Yesterday, Cold Day to Severe Cold Day conditions observed in isolated pockets over West Rajasthan.

- Fog observed (at 0830 hours IST of today): Dense to Very Dense fog observed in some pockets over East Uttar Pradesh and Bihar and in isolated pockets Punjab, west Rajasthan, West Madhya Pradesh, Sub-Himalayan West Bengal and Moderate to Dense fog observed in some pockets over Haryana, Chandigarh and Delhi.
- Maximum Temperature Departures as on 19-01-2021: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Jammu, Kashmir, Ladakh, Gilgistan, Baltistan & Muzaffrabad, Chhattisgarh, Vidarbha and Uttarakhand; at a few places over Himachal Pradesh, Madhya Pradesh and Odisha; at isolated places over West Uttar Pradesh; above normal (1.6°C to 3.0°C) at many places over Punjab, Jharkhand and Coastal Karnataka; at a few places over Konkan & Goa and Madhya Maharashtra; at isolated places over Saurashtra & Kutch, Telangana, Tamil Nadu, Puducherry & Karaikal and Coastal Andhra Pradesh & Yanam. They were markedly below normal (-5.1°C or less) at isolated places over West Rajasthan; appreciably below normal (-3.1°C to -5.0°C) at a few places over Haryana, Chandigarh & Delhi; at isolated places over East Rajasthan; below normal (-1.6°C to -3.0°C) at a few places over Assam & Meghalaya and Kerala & Mahe; at isolated places over West Bengal & Sikkim and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 34.6°C was reported at Karwar & Mangalore (Coastal Karnataka) over the country.
- Minimum Temperature Departures as on 20-01-2021: Minimum temperatures are markedly above normal (5.1°C or more) at a few places over Gangetic West Bengal and Chhattisgarh; at isolated places over Odisha and Madhya Maharashtra; appreciably above normal (3.1°C to 5.0°C) at most places over Jharkhand and Marathawada; at many places over Vidarbha, Assam & Meghalaya and Nagaland, Mizoram, Manipur & Tripura; at a few places over Madhya Pradesh; at isolated places over Uttar Pradesh, Tamil Nadu, Puducherry & Karaikal and Andaman & Nicobar Islands; above normal (1.6°C to 3.0°C) at many places over North Interior Karnataka and Konkan & Goa; at a few places over Gujarat Region and Telangana; at isolated places over Haryana, Chandigarh & Delhi, East Rajasthan, Coastal Andhra Pradesh & Yanam and Kerala & Mahe. They are below normal (-1.6°C to -3.0°C) at a few places over Saurashtra & Kutch and South Interior Karnataka and near normal over rest parts of the country. The lowest minimum temperature of 4.4°C reported at Pilani (East Rajasthan) and Amritsar (Punjab) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 20 January (Day 1): Dense to Very Dense Fog in isolated pockets very likely over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh and West Rajasthan and Dense Fog in isolated pockets over Bihar, Sub-Himalayan West Bengal & Sikkim and Odisha. Cold Day to Severe Cold Day conditions in isolated pockets very likely over Punjab, Haryana & Chandigarh and West Rajasthan.
- 21 January (Day 2): Dense to Very Dense Fog in isolated pockets very likely over Punjab and Haryana, Chandigarh & Delhi and Dense Fog in isolated pockets over Uttar Pradesh and Bihar.
- 22 January (Day 3): Dense to Very Dense Fog in isolated pockets very likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura and Dense Fog in isolated pockets likely over Bihar. Thunderstorm accompanied with lightning & hail very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad.
- 23 January (Day 4): Dense to Very Dense Fog in isolated pockets likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm accompanied with lightning & hail likely at isolated places over Himachal Pradesh and Uttarakhand and thunderstorm accompanied with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad. Heavy rain/snow likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad.
- 24 January (Day 5): Dense to Very Dense Fog in isolated pockets likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura
- The weather outlook for seven days i.e., 20 to 28 January 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:

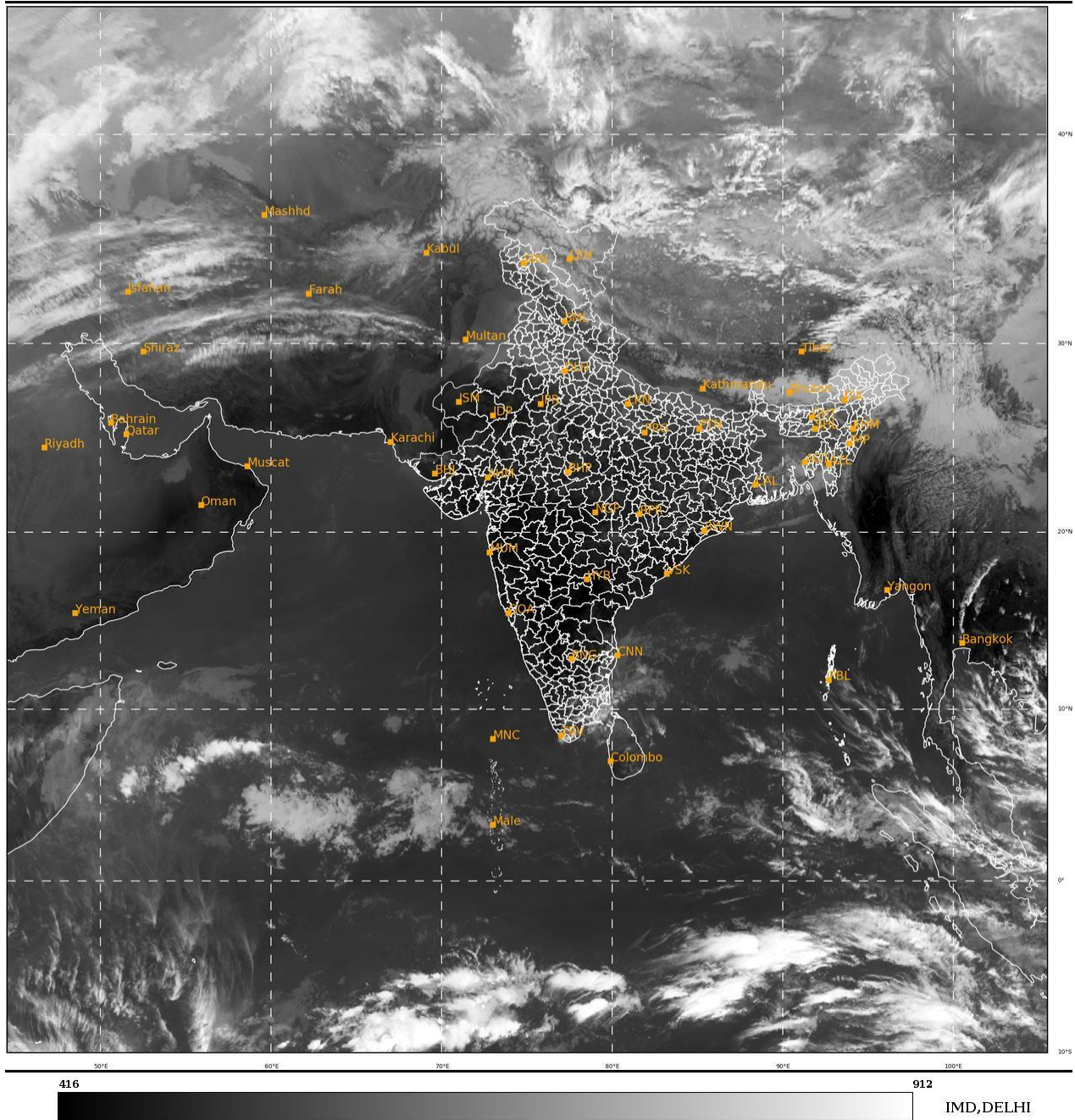
The actual maximum temperature was 0.2 °C lower and Actual minimum temperature was 4.9 °C higher as compared to its normal. Total BSS was 38.9 hrs. with an average of 5.6 hrs. The daily average evaporation and wind speed was 2.9 mm and 3.9 km/hr respectively. The daily average RH during morning and afternoon was 88.9 % and 59.4 % 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.
- 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.
- Castor: Reproductive: Borer: Apply apply chlorpyriphos 20 Ec 20 ml or Quinalphos 25 Ec 20 ml in 10 lit of water.
- 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 Carbendazim (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

20-01-2021/(0600 to 0627) GMT
20-01-2021/(1130 to 1157) IST



**Figure: 1. Latest available satellite picture as on 20 January 2021 at 1157 Hrs (IST).
(Source: IMD).**

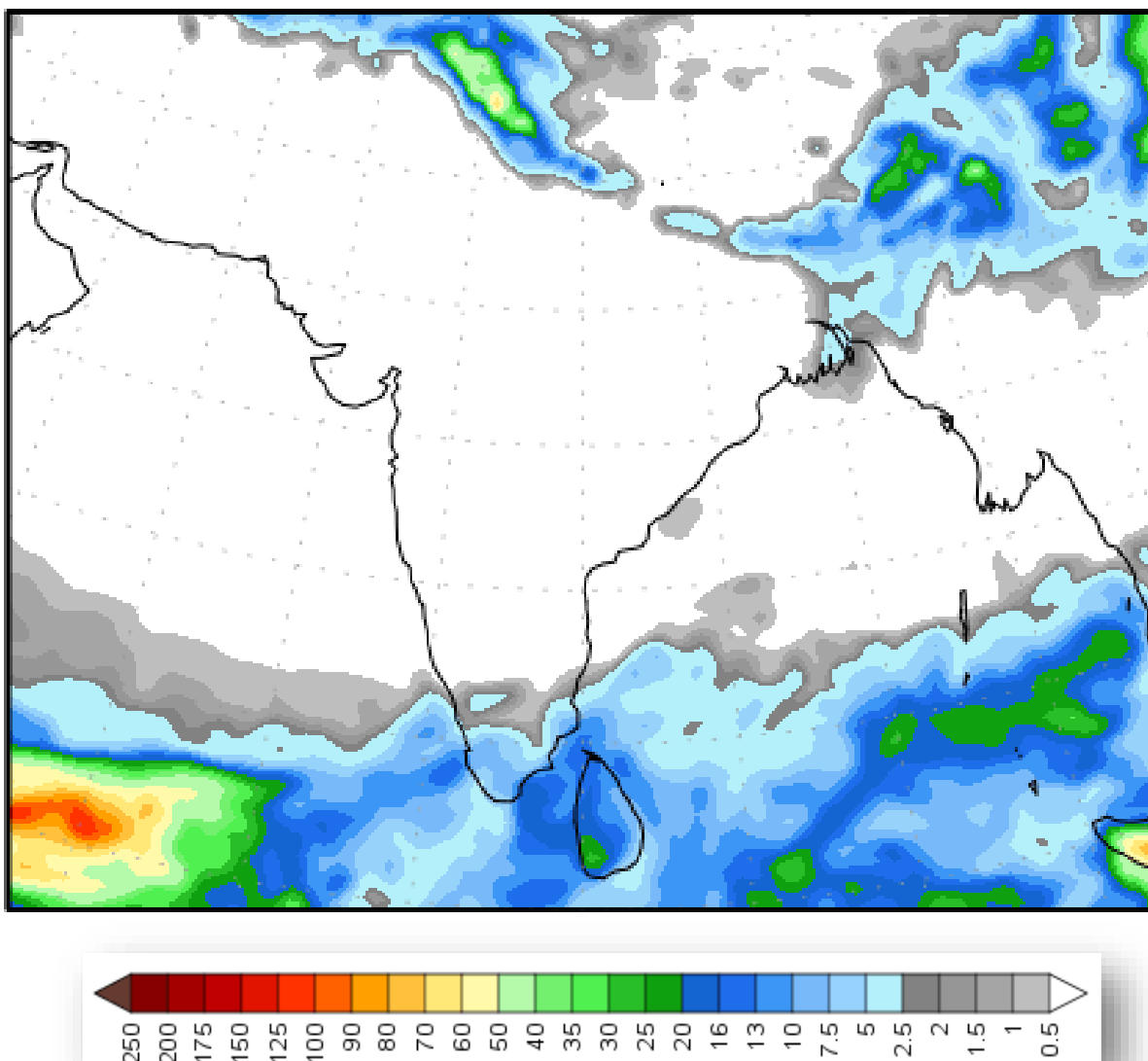


Figure:2. Precipitation forecast for 20 to 28 January 2021 (Source: NOAA NCEP).

Disclaimer: The predictability of weather depends on many dynamic factors. 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 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.