

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 25 January 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A fresh and active Western Disturbance is very likely to affect the Western Himalayan region from the night of 27th January 2020 onwards. It is very likely to cause fairly widespread to widespread rain/snow over Western Himalayan Region with isolated heavy rain/snow over Jammu & Kashmir and Himachal Pradesh.
- Scattered to fairly widespread rain/thunderstorm from 27th to 29th January over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh and isolated to scattered over Rajasthan and north Madhya Pradesh and East India. Thunderstorm accompanied by lightning & hail at isolated places also likely over plains of northwest India on 28th & 29th January.
- Surface wind (05-15 kmph) likely till the night of today and further weakening of winds likely on 26th January over plains of north India.
- Mainly dry weather is likely to prevail over the country except for western Himalayan regions and northeastern states where isolated to scattered rain is likely till 26th January.
- 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 isolated places over Assam & Meghalaya, Arunachal Pradesh and Sub-Himalayan West Bengal & Sikkim.
- Fog observed at 0830 hours IST of today: Dense to very Dense fog in isolated parts over West Uttar Pradesh; Dense fog in some parts over East Uttar Pradesh and isolated parts over Bihar; Moderate fog in isolated parts over Assam & Meghalaya and Coastal Andhra Pradesh & Yanam. Visibility recorded at 0830 hours IST of today: Shahjhanpur- 25 m; Bahraich, Gorakhpur, Sultanpur, Varanasi and Purnea -50 m each; Bareilly, Dhubri, and Bapatla -200 m each.
- Maximum Temperature Departures as on 24-01-2020: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Uttarakhand;

at a few places over Coastal & South Interior Karnataka, Kerala & Mahe, and Konkan & Goa and at isolated places over Himachal Pradesh and Andaman & Nicobar Islands; above normal (1.6°C to 3.0°C) at most places over Lakshadweep; at many places over Rayalaseema; at a few places over Saurashtra & Kutch, Tamil-Nadu, Puducherry & Karaikal, Marathwada, Chhattisgarh, and Coastal Andhra Pradesh & Yanam and at isolated places over Madhya Maharashtra, Vidarbha, and Odisha. They were appreciably below normal (-3.1°C to -5.0°C) at a few places over Bihar and at isolated places over Sub- Himalayan West Bengal & Sikkim and Assam & Meghalaya; below normal (-1.6°C to -3.0°C) at many places over Haryana, Chandigarh & Delhi, East Uttar Pradesh, and East Madhya Pradesh; at a few places over Arunachal Pradesh, Gangetic West Bengal, and West Madhya Pradesh and isolated places over West Uttar Pradesh, East Rajasthan and Nagaland, Manipur, Mizoram & Tripura and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 37.6°C was recorded at Karwar (Coastal Karnataka).

- Minimum Temperature Departures as on 25-01-2020: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at a few places over West Rajasthan and Saurashtra & Kutch and isolated places over Jammu & Kashmir, Telangana, and Andaman & Nicobar Islands; above normal (1.6°C to 3.0°C) at most places over Kerala & Mahe and Lakshadweep; at many places over Himachal Pradesh, Marathawada and Madhya Maharashtra; at a few places over Coastal Andhra Pradesh & Yanam and Konkan & Goa and at isolated places over Uttarakhand, Punjab, Sub-Himalayan West Bengal, & Sikkim, Assam & Meghalaya, Odisha, Gujarat region and Karnataka. They are appreciably below normal (-3.1°C to -5.0°C) at many places over Haryana, Chandigarh & Delhi and Jharkhand; at a few places over East Uttar Pradesh and Bihar and at isolated places over East Rajasthan and Madhya Pradesh; below normal (-1.6°C to -3.0°C) at most places over Gangetic West Bengal; at many places over Nagaland, Manipur, Mizoram & Tripura and Rayalaseema; at a few places over Arunachal Pradesh and at isolated places over Tamil-Nadu, Puducherry & Karaikal and near normal over rest parts of the country. The lowest minimum temperature of 2.5°C recorded at Karnal and Sikar (Haryana and East Rajasthan) over plains of the country.

Weather Warning during the next 5 days (IMD)

- 25 January (Day 1): Dense to very dense fog very likely in isolated parts over Uttar Pradesh and Dense fog in isolated parts over Punjab, Haryana & Chandigarh, Bihar, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Cold Wave Conditions are very likely in isolated parts over Odisha.

- 26 January (Day 2): Dense to very dense fog very likely in isolated parts over Uttar Pradesh and Dense fog in isolated parts over Punjab, Haryana & Chandigarh, Bihar and Assam & Meghalaya. Cold Wave Conditions are very likely in isolated parts over Odisha. A strong wind (speed reaching 45-55 kmph) likely to prevail over the northwest & west-central the Arabian Sea. Fishermen are advised not to venture into the sea.
- 27 January (Day 3): Thunderstorm accompanied with hail & lightning very likely at isolated places over Punjab, Haryana, Chandigarh, north Rajasthan, East Madhya Pradesh, and Chhattisgarh. A strong wind (speed reaching 45-55 kmph) very likely to prevail over the northwest & west-central the Arabian Sea. Fishermen are advised not to venture into the sea.
- 28 January (Day 4): Heavy rain/snow likely at isolated places over Jammu & Kashmir and Himachal Pradesh. Thunderstorm accompanied with hail & lightning likely at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, and northeast Rajasthan and with lightning at isolated places over Madhya Pradesh, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, and Odisha.
- 29 January (Day 5): Dense fog likely in isolated parts over Punjab and Haryana, Chandigarh & Delhi. Thunderstorm accompanied with hail & lightning likely at isolated places over Himachal Pradesh, Uttarakhand, and Uttar Pradesh and with lightning at isolated places over Haryana, Chandigarh & Delhi, Gangetic West Bengal, Odisha, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- The weather outlook for the period of seven days i.e., 25 Jan to 02 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)

Uttar Pradesh

Weather condition:

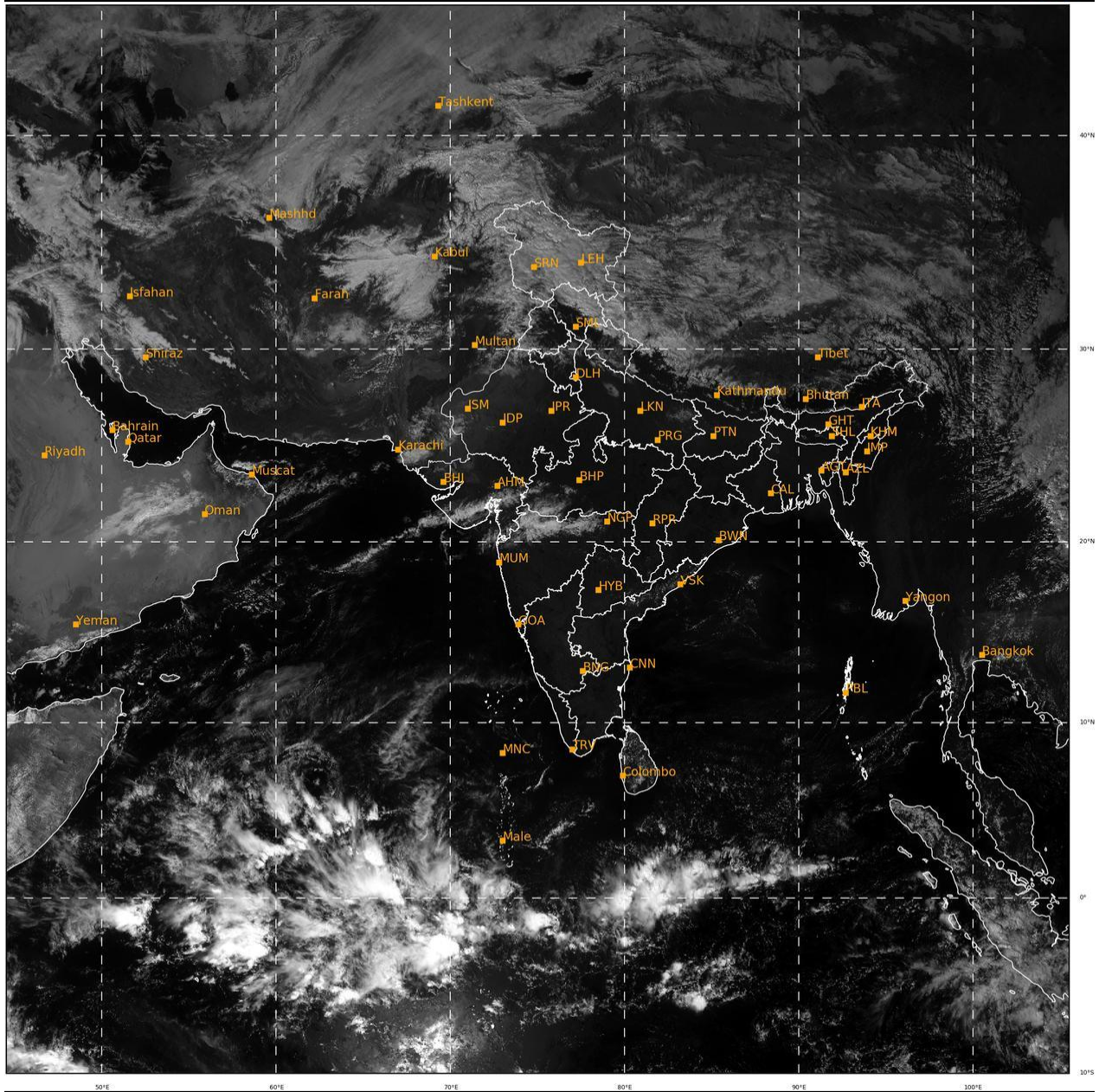
Weather will be mainly dry during these days, light cloudy weather on 22 January only and rest days sky is clear, no rainfall forecast from 22 to 26 January 2020. Maximum temperature may be expected near to its normal and minimum temperature may be expected 1-2 0C lower than its normal. Wind velocity range may be expected 4.6 to 15.9 kmph prevailing NE/ NW which maybe 2.0 to 4.0 kmph above from the normal during the coming week as per forecast.

Contingency measure:

- Wheat: No need irrigation due to 65.6 mm rainfall occurred during last week. Top dress $\frac{1}{4}$ Urea at optimum moisture during the CRI stage. Use 20 g/ha Metsulfuron or 2,4-D 500g/ha or Carfentrazon 50 g/ha with 300 lt. water spray at optimum moisture for control of broadleaf weeds.
- Barley: No need for irrigation due to 65.6 mm rainfall occurred during last week. Top dress 60 kg/ha Urea at optimum moisture.
- Rabi maize: No need irrigation due to 65.6 mm rainfall occurred during last week. Top dress remaining dose of Urea.
- Pigeon pea: For Control of fruit fly spray Monocrotophos 36EC or Dimethoat 30 EC @ 1.0 lt/ha after flowering.
- Pea: For protection from Pod borer and Semi looper, 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 Sulphur (80%) 2.0 kg/ha or Trademark 80 %EC with 500-600 lt. water solution to protect from Powdery mildew.
- Gram: Nipping must be taken up after 45 DOS. For protection from Pod borer and Semi looper, 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
- Lentil: Weeding.
- Mustard: Top dress $\frac{1}{4}$ Urea at optimum moisture after rainfall in late sowing. Watchful for Aphid infestation if need spray Malathion 5% WP @ 20-25 kg/ha.
- Linseed: Nil.
- Brinjal /Chilies: Pick up mature fruits in standing crop, watching insect & pests.
- Leafy Vegetable: Cutting, marketing.
- Potato: Dig out early sown crop. Take precaution from late blight and Aphid, spray Copper oxychloride 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 animals. 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 a Veterinary doctor.

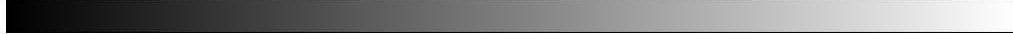
SAT : INSAT-3D IMG
Visible Count 0.65 um
L1C Mercator

25-01-2020/(0830 to 0857) GMT
25-01-2020/(1400 to 1427) IST



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IMD, DELHI

Figure: 1. Latest available satellite picture as on 25 January 2020 at 1427 Hrs (IST).
(Source: IMD).

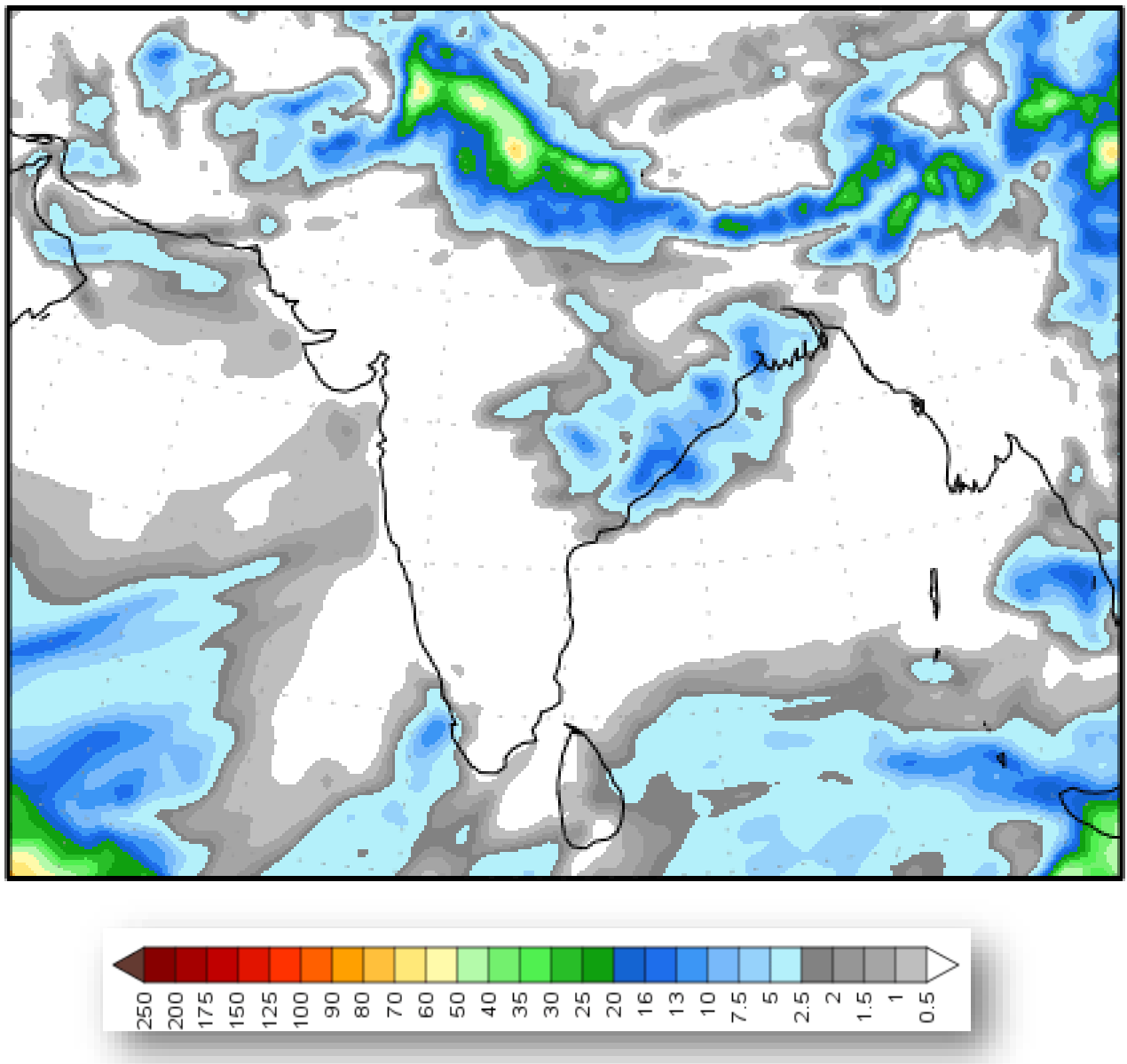


Figure:2. Precipitation forecast for 25 Jan to 02 Feb 2020 (Source: NOAA NCEP).

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