

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 05 February 2022

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Western Disturbance as a the trough in middle & upper tropospheric westerlies with its axis at 5.8 km above mean sea level now runs roughly along Long. 85°E to the north of Lat. 20°N. Under its influence; fairly widespread to widespread light/moderate rainfall with thunderstorm/lightning very likely over subHimalayan west Bengal & Sikkim and northeast India during next 24 hours.
- Under the influence of a feeble Western Disturbance; isolated to scattered light rainfall/snowfall very likely over Western Himalayan Region on 06th & 07th February, 2022.
- Under the influence of another Western Disturbance; scattered/fairly widespread light/moderate rainfall/snowfall very likely over Western Himalayan Region during 08th - 09th February and isolated light rainfall likely over northern parts of Punjab & Haryana-Chandigarh on 08th & 09th February, 2022.
- Cold Day to Severe Cold Day Conditions very likely in isolated/some parts over Madhya Pradesh and Sub-Himalayan West Bengal & Sikkim during next 24 hours and over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana-Chandigarh and Uttar Pradesh during next 2 days.
- Cold wave Conditions very likely in isolated pockets over East Madhya Pradesh and Chhattisgarh during next 24 hours and over Odisha during next 2 days.
- Dense to Very Dense Fog Conditions likely in isolated/some parts in night/morning hours over Himachal Pradesh, north Rajasthan, Bihar, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura during next 2 days; over Sub-Himalayan West Bengal during next 3 days; over Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh and Odisha during next 4 days and over East Uttar Pradesh during next 5 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 Himachal Pradesh, Bihar, West Bengal &

Sikkim, Assam & Meghalaya, Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura; at many places over Uttarakhand; at a few places over Jharkhand, Odisha and Andaman & Nicobar Islands and at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Punjab, Haryana-Chandigarh and Uttar Pradesh.

- Thunderstorm accompanied with Hail observed at isolated places over Bihar, Odisha and sub-Himalayan west Bengal & Sikkim.
- Fog observed (during 0830 hours IST of today): Dense to very dense fog in isolated pockets over Haryana-Chandigarh and West Rajasthan and Dense fog in isolated pockets over Punjab, Uttarakhand, Delhi, East Uttar Pradesh and Meghalaya.
- Cold Day to severe cold Day conditions observed in isolated pockets over Uttarakhand, Punjab, Haryana-Chandigarh-Delhi and Uttar Pradesh and Cold day conditions in isolated pockets over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at a few places over Odisha and Gangetic West Bengal and at isolated places over Assam & Meghalaya, East Uttar Pradesh and Bihar.
- Minimum Temperature Departures (as on 05-02-2022): Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at isolated places over Tamilnadu, Puducherry & Karaikal and Kerala & Mahe; above normal (1.6°C to 3.0°C) at isolated places over Rayalseema and Coastal Andhra Pradesh & Yanam. They are markedly below normal (-5.0°C or less) at isolated places over Madhya Pradesh; appreciably below normal (-3.1°C to -5.0°C) at most places over Vidarbha and Telangana; below normal (-1.6°C to -3.0°C) at most places over Himachal Pradesh, Konkan & Goa, Marathwada & Kerala & Mahe; at many places over Uttarakhand, Haryana, Chandigarh & Delhi, East Rajasthan, Chhattisgarh & South Interior Karnataka; at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Gujarat State, Madhya Maharashtra, Sub-Himalayan West Bengal & Sikkim and at isolated places over Punjab, East Uttar Pradesh, Gangetic West Bengal, Odisha and near normal over rest parts of the country. Today, the Lowest minimum temperature of 3.0°C reported at Narnaul (Haryana) over the plains of the country.
- Maximum Temperature Departures (as on 04-02-2022): Maximum temperatures were above normal (1.6°C to 3.0°C) at a few places over Kerala & Mahe and Tamilnadu, Puducherry & Karaikal and at isolated places over Coastal Andhra Pradesh & Yanam. They were markedly below normal (-5.1°C or less) at most places over Sub-Himalayan West Bengal & Sikkim, Himachal Pradesh and

Uttarakhand; at Many places over Gangetic West Bengal, Bihar and West Uttar Pradesh; at a few places over Haryana, Chandigarh & Delhi and East Uttar Pradesh; appreciably below normal (-3.1°C to -5.0°C) at most places over Punjab; at many places over Vidarbha; at a few place over Jharkhand, Telangana and North Interior Karnataka and at isolated places over Madhya Pradesh, Marathawada and West Rajasthan ; below normal (-1.6°C to -3.0°C) at many places over Madhya Maharashtra, Odisha and East Rajasthan; at a few places over Konkan & Goa, Coastal Karnataka and Andaman & Nicobar Islands and at isolated places over Assam & Meghalaya and Gujarat State and near normal over rest parts of the country. Yesterday, the Highest maximum temperature of 36.7°C was reported at Tiruchchirapali (Tamilnadu) over the country.

Weather Warning during the next 5 days (IMD)

- 05 February (Day 1): Thunderstorm with lightning at isolated pockets very likely over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Cold Day to Severe Cold Day conditions in some pockets very likely over Uttar Pradesh; in isolated pockets over Uttarakhand and Haryana-Chandigarh-Delhi and Cold Day conditions in isolated pockets over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Punjab, Madhya Pradesh and Odisha. Cold Wave conditions in isolated pockets very likely over East Madhya Pradesh, Chhattisgarh and Odisha. Dense to very Dense Fog in few places very likely over Punjab, Haryana-Chandigarh-Delhi and Uttar Pradesh and Dense Fog in isolated pockets over Himachal Pradesh, Uttarakhand, north Rajasthan, Bihar, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- 06 February (Day 2): Cold Day to Severe Cold Day conditions in some pockets very likely over Uttar Pradesh; in isolated pockets over Uttarakhand and Haryana-Chandigarh-Delhi and Cold Day conditions in isolated pockets over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Punjab. Cold Wave conditions in isolated pockets very likely over Odisha. Dense to very Dense Fog in few places very likely over Uttar Pradesh; in isolated pockets over Punjab and Haryana-Chandigarh-Delhi and Dense Fog in isolated pockets over Himachal Pradesh, Uttarakhand, north Rajasthan, Bihar, Sub-Himalayan West Bengal & Sikkim, Odisha, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- 07 February (Day 3): Cold Day to Severe Cold Day conditions in isolated pockets very likely over West Uttar Pradesh. Dense to very Dense Fog in isolated pockets very likely over Uttar Pradesh and Dense Fog in isolated pockets over Punjab, Haryana-Chandigarh-Delhi, Sub-Himalayan West Bengal & Sikkim and Odisha.

- 08 February (Day 4): Dense to very Dense Fog in isolated pockets likely over Uttar Pradesh and Dense Fog in isolated pockets over Punjab, Haryana-Chandigarh-Delhi and Odisha.
- 09 February (Day 5): Dense to very Dense Fog in isolated pockets likely over East Uttar Pradesh.
- The weather outlook for seven days i.e., 05 Feb to 13 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)

Gujarat

Weather condition:

The actual maximum temperature was 0.5 °C and actual minimum temperature was 0.7 °C lower as compared to its normal. Total BSS was 61.7 hrs. with an average of 8.8 hrs. The daily average evaporation and wind speed was 2.9 mm and 2.2 km/hr respectively. The daily average RH during morning and afternoon was 88.1 % and 36.6 % respectively.

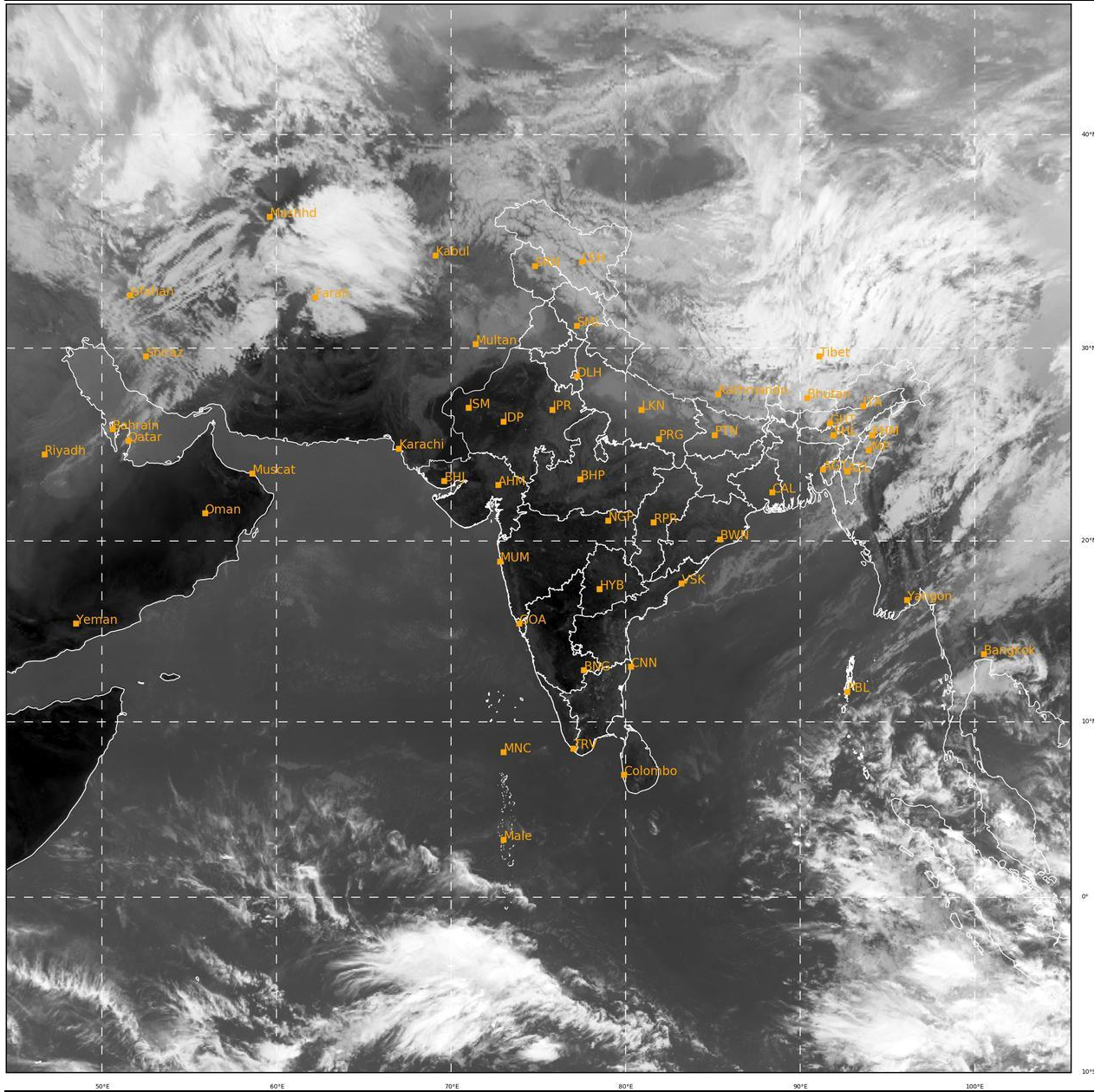
Contingency measure:

- Wheat: Flowering : Termite : To control termite apply chlorpyrifos 20 EC 2 to 2.5 liter/ha with irrigation water.
- Mustard : Pod development/Physiological maturity : 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 of 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.
- Tobacco : Carried out topping operation at flowering initiation stage. Desucuring should be done regularly. Harvest the mature leaves by curing or priming method and keep it for sun dry.
- Gram: Flowering/pod initiation : Apply irrigation, if required. Spray Neem oil @ 50ml/15 liter or Beauveria bassiana @ 50g/15 liter in clear weather condition for management of Helicoverpa caterpillars.
- Chilli : For control of thrips, spray Profenofos 20 ml or neem seed oil 50 ml in 10 liter water. In case of severe attack, spray Spinosad or Spinetoram 3 ml per 10 liter of water.

- Tomato: 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.
- Potato : Late blight : To control late blight, spray Chlorothalonil fungicide 75 WP 25 g in 10 liter of water in clear weather condition.
- Castor : To control capsule borer, spray neem seed kernel powder (5% extract) 500 g or Beauveria bassiana or Verticillium lecanii fungus powder 40 g in 10 liter of water.
- Vegetable Crop: Growth: Due to variable weather farmers are advised to constant monitoring against attack of pest and disease in vegetable crop, if symptom observed, take protection measures as per recommendation when sky remain clear.
- Cattle : Keep animal shed hygienic and clean to avoid flies and mosquitoes. Keep the animals indoor at night time for protecting against extreme cold wind. 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

05-02-2022/(0800 to 0827) GMT
05-02-2022/(1330 to 1357) IST



377

930

IMD, DELHI

Figure: 1. Latest available satellite picture as on 05 Feb 2022 at 1357 Hrs (IST). (Source: IMD).

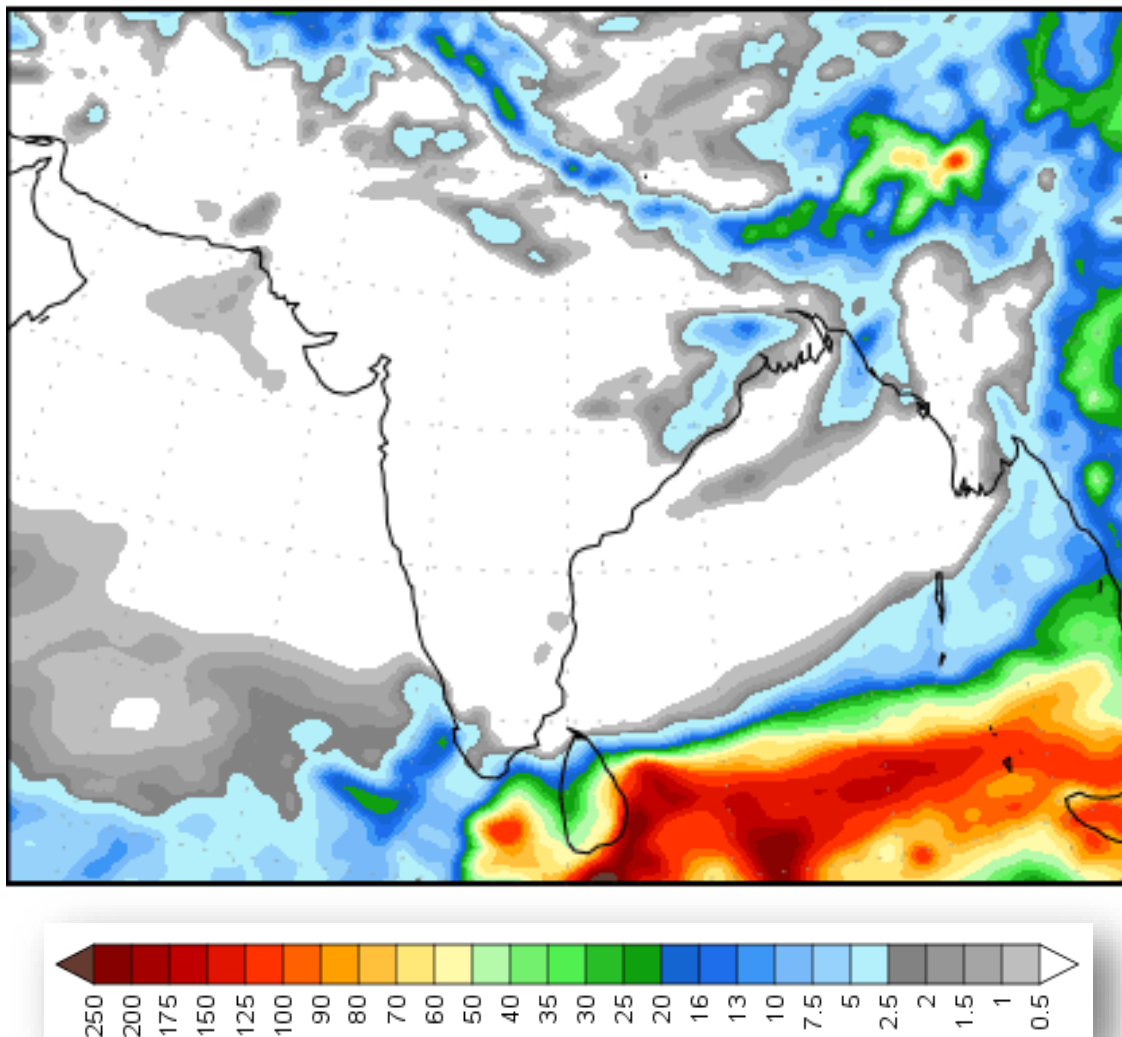


Figure:2. Precipitation forecast for 05 Feb to 13 Feb 2022 (Source: NOAA NCEP).

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