

All India Coordinated Research Project on Agrometeorology CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 10 February 2022

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Western Disturbance as a trough in middle & upper tropospheric westerlies runs along Long. 82°E to the north of Lat. 27°N and a trough runs from Bihar to North Interior Karnataka in lower tropospheric levels; it is very likely to cause: 1. Isolated to scattered light/moderate rainfall with thunderstorm & lightning very likely over Sub-Himalayan West Bengal-Sikkim during next 2 days and over Jharkhand, Bihar, Gangetic West Bengal & Odisha on 10th February, 2022. 2. Scattered to fairly widespread rainfall with thunderstorm & lightning very likely over Arunachal Pradesh and Assam & Meghalaya during next 2 days. Isolated hailstorm also likely over Assam & Meghalaya on 11th February, 2022. 3. Strong winds (speed 25-35 kmph) very likely over Punjab, Haryana and West Uttar Pradesh during next 2 days.
- Isolated to scattered rainfall very likely over Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep during next 5 days. Isolated thunderstorm accompanied with lightning also likely over Tamilnadu, Puducherry & Karaikal, Kerala & Mahe during next 3 days.
- Under the influence of fresh feeble Western Disturbance; isolated to scattered light rainfall/snowfall very likely over Jammu, Kashmir, Ladakh, GilgitBaltistan & Muzaffarabad, Himachal Pradesh and Uttarakhand on 13th & 14th February, 2022.
- Under the influence of another Western Disturbance; scattered to fairly widespread light rainfall/snowfall very likely over Western Himalayan Region and light isolated to scattered over plains of northwest India from 17th to 21st February, 2022.
- Cold Day to Severe Cold Day conditions very likely in isolated pockets of Uttar Pradesh during next 2 days and Cold Day conditions very likely in isolated pockets over Uttarakhand during next 2 days.
- Dense to Very Dense Fog Conditions very likely in isolated pockets during night/morning hours over Uttar Pradesh during next 5 days and dense fog conditions very likely over Himachal Pradesh, Uttarakhand & northeast

Rajasthan during next 24 hours and over Punjab, Haryana-Chandigarh-Delhi during night/morning hours of 13th-15th February, 2022.

- 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 many places over Uttarakhand and Chhattisgarh; at a few places over Himachal Pradesh, East Madhya Pradesh, Jharkhand and Arunachal Pradesh and at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Haryana, Uttar Pradesh, Vidarbha, Assam & Meghalaya, Bihar, West Bengal & Sikkim, Odisha and Kerala & Mahe.
- Fog observed (at 0830 hrs IST): Dense to Very Dense Fog in isolated pockets over Himachal Pradesh, North Haryana, West Uttar Pradesh, Southwest Bihar, Northeast Madhya Pradesh; Shallow to Moderate Fog in isolated pockets over Punjab, Delhi, East Rajasthan, Northwest Madhya Pradesh, East Uttar Pradesh, South Jharkhand and Sub-Himalayan West Bengal & Sikkim.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over southeast Madhya Pradesh, West Uttar Pradesh and Uttarakhand.
- Minimum Temperature Departures (as on 10-02-2022): Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at isolated places over East Madhya Pradesh and Jharkhand; above normal (1.6°C to 3.0°C) at a few places over Chhattisgarh, Bihar and Gangetic West Bengal and at isolated places over Rajasthan, Saurashtra & Kutch, West Madhya Pradesh, Vidarbha, Marathwada, Kerala & Mahe, Odisha and Andaman & Nicobar Islands. They are below normal (-1.6°C to -3.0°C) at many places over Himachal Pradesh; at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Konkan & Goa, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura and at isolated places over Haryana, Tamilnadu, Puducherry & Karaikal and Coastal Andhra Pradesh & Yanam and near normal over rest parts of the country. Today, the lowest minimum temperature of 5.7°C reported at Ludhiana(Punjab) over the plains of the country.
- Maximum Temperature Departures (as on 09-02-2022): Maximum temperatures were above normal (1.6°C to 3.0°C) at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Kerala & Mahe; at isolated places over Himachal Pradesh, East Madhya Pradesh, Vidharbha, Chhattisgarh, Gangetic West Bengal, Odisha, Assam & Meghalaya and Tamilnadu, Puducherry & Karaikal. They were markedly below normal (-5.0°C or less) at isolated places over Uttar Pradesh,

Uttarakhand, and Telangana and Sub-Himalayan West Bengal & Sikkim; appreciably below normal (-3.1°C to -5.0°C) at isolated places over Himachal Pradesh, Konkan & Goa, Madhya Pradesh, Gangetic West Bengal and Nagaland, Manipur, Mizoram & Tripura; Sub-Himalayan West Bengal & Sikkim, Bihar and Nagaland, Manipur, Mizoram & Tripura and at a few places over East Uttar Pradesh; below normal (-1.6°C to -3.0°C) at many places over Bihar; at a few places over Himachal Pradesh, Haryana, Vidharbha; at isolated places over Telangana, Madhya Maharashtra, Marathwada, south Andhra Pradesh, Rayalaseema, interior Karnataka and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 35.7°C was reported at Alapuzha (Kerala & Mahe) over the country.

Weather Warning during the next 5 days (IMD)

- 10 February (Day 1): Thunderstorm accompanied with lightning at isolated places very likely over Jharkhand, West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya and Tamilnadu-Puducherry-Karaikal. Dense Fog in isolated pockets very likely over Himachal Pradesh, Uttarakhand, terai belt of Uttar Pradesh and Northeast Rajasthan. Cold day to severe cold day condition in isolated pockets very likely over Uttar Pradesh and Cold day condition in isolated pockets over Uttarakhand. Squally weather speed (40-50 kmph) very likely over North Tamilnadu coast. Fisherman are advised not to venture into these areas.
- 11 February (Day 2): Thunderstorm accompanied with lightning/Hail at isolated places very likely over Assam & Meghalaya; with lightning at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Kerala & Mahe and Tamilnadu-Puducherry-Karaikal. Dense Fog in isolated pockets very likely over terai belt of Uttar Pradesh. Cold day condition in isolated pockets very likely over Uttar Pradesh and Uttarakhand.
- 12 February (Day 3): Thunderstorm accompanied with lightning at isolated places very likely over Tamilnadu-Puducherry-Karaikal and Kerala-Mahe. Dense to very dense Fog in isolated pockets very likely over Uttar Pradesh; Dense fog in isolated pockets over Punjab and Haryana-Chandigarh-Delhi.
- 13 February (Day 4): Dense to very dense Fog in isolated pockets likely over Uttar Pradesh and Dense fog in isolated pockets over Punjab and Haryana-Chandigarh-Delhi.
- 14 February (Day 5): Dense to very dense Fog in isolated pockets likely over Uttar Pradesh and Dense fog in isolated pockets over Punjab and Haryana-Chandigarh-Delhi.
- The weather outlook for seven days i.e., 10 Feb to 18 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)

Assam

Weather condition:

Weather during the last week was mainly cloudy. Daily average maximum temperature was 21.2°C which was 2.1 below normal and the average daily minimum temperature was 9.7°C which was 1.4 below normal for the week. Total BSSH was 27.7 hrs with an average of 4.6 hrs. The daily average evaporation rate was 1.4 mm/day and the average daily wind speed during the week 1.9 kmph. Daily average RH during morning and afternoon hour was 98.1% and 58.0% respectively.

Contingency measure:

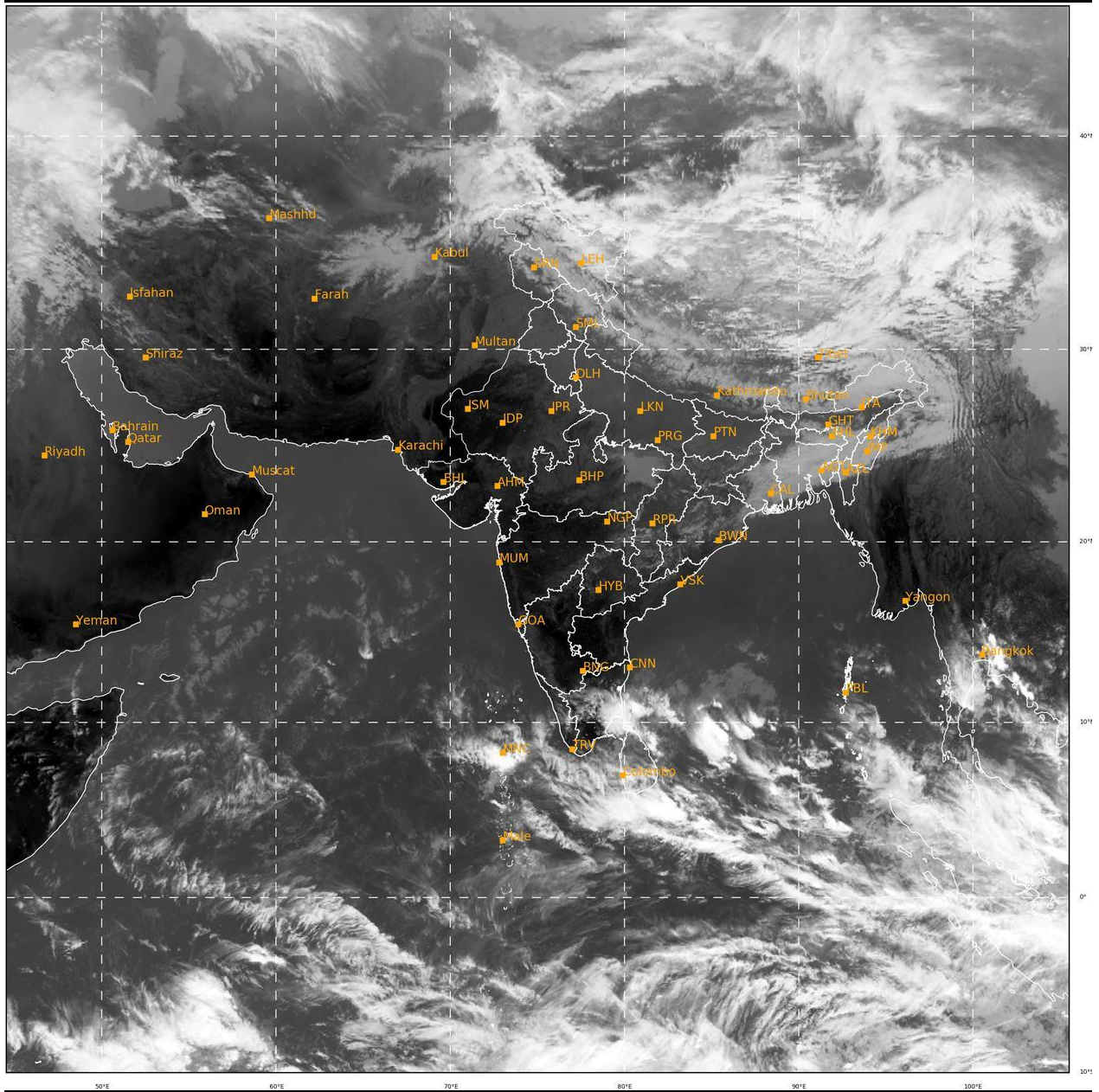
- Boro rice (transplanting): Farmers are advised to maintain standing water of 5±2 cm depth in the boro rice fields. Attack of rice borer may be observed in the boro rice crop due to congenial weather, so sparying of Flubendiamide 39.35SC (@1.23 ml per 10litre of water). To control red ant and other soil insects, Thimet 10G should be applied in the soil during earthing up @ 2-3 kg per bigha.
- Potato (Tuber development): To control red ant and other soil insects, Thimet 10 G should be applied in the soil during earthing up @ 2-3 kg per bigha. Application of mustard oil cake @ 20 kg/bigha is suggested at the time of earthing up also reduces red ant and white ant infestation to a great extent. As cloudy and foggy weather is forecasted in the upcoming days, appearance of late blight may be seen in the potato crop, so farmers are advised to spray Mancozeb @ 2.5g/lit against late blight as protective measure. Mustard oil-cake and Malathion 5% dust may be applied against ants and termites. If excess rainfall occurs and as potato is very sensitive to water stagnation problem, farmers are advised to maintain drainage channel around and inside the field to avoid water stagnation problem.
- Okra (Land preparation): Land preparation may be continued for okra cultivation. Collect seeds of recommended varieties like Pusa Sawani, Arka Anamika, Parvani Kranti, or other local varieties for sowing from this week. About 2 kg seeds are required for sowing one bigha of land.
- Poultry birds: Vaccination to control the Ranikhet disease of poultry may be done during this period. Farmers are advised to protect poultry houses from extreme rain/wind by covering with polythene sheets on the sheds and maintain the temperature by using 100-watt bulb. Farmers should provide vitamin B complex

@ 7ml/litre in drinking water daily in broiler for healthy growth.

- Fishery (various): As there is a gradual drop in the water level in pond during this post-monsoon season, the fishery owners may go for partial harvesting of marketable sized fish (>700gm). Measures should be taken to prevent Epizootic Ulcerative Syndrome (EUS) in fish by following dip treatment of fishes in 500 ppm potassium permanganate solution

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

10-02-2022/(0800 to 0826) GMT
10-02-2022/(1330 to 1356) IST



398

935

IMD,DELHI

Figure: 1. Latest available satellite picture as on 10 Feb 2022 at 1356 Hrs (IST). (Source: IMD).

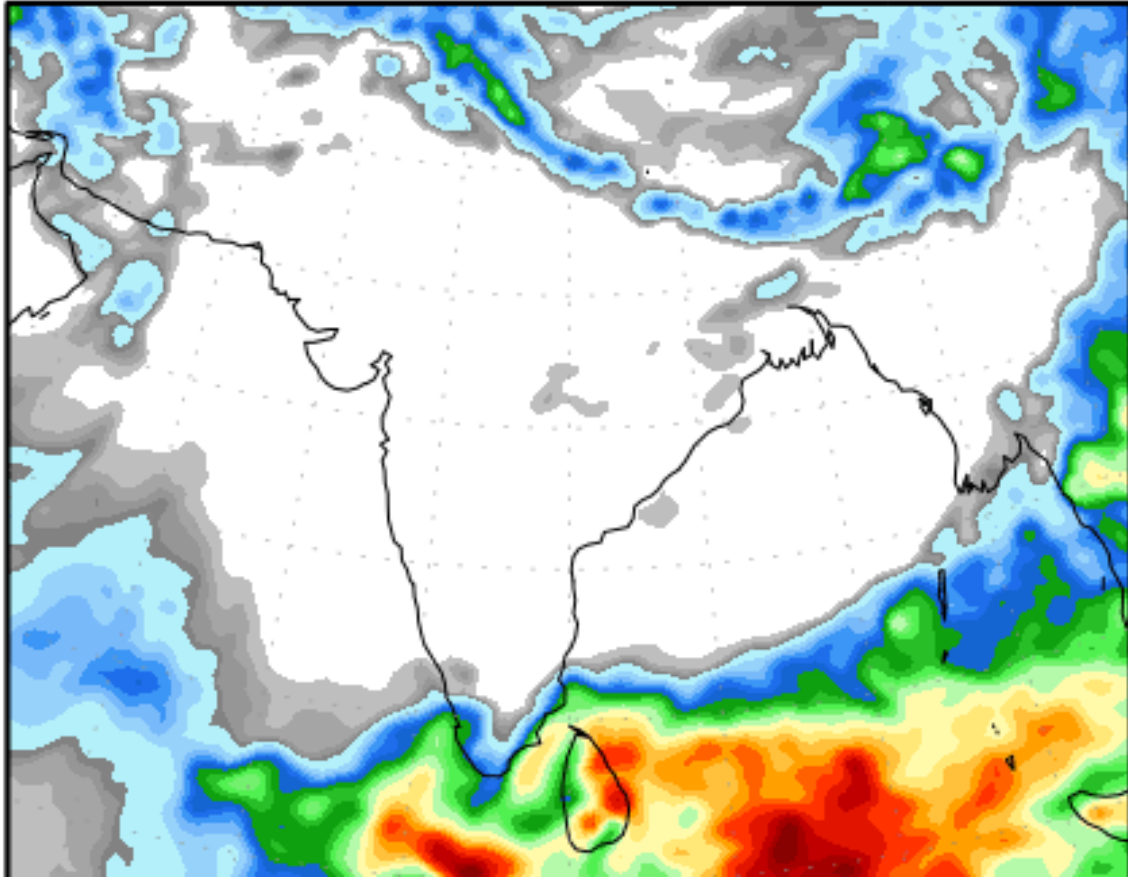


Figure:2. Precipitation forecast for 10 Feb to 18 Feb 2022 (Source: NOAA NCEP).

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