

# All India Coordinated Research Project on Agrometeorology

## CRIDA, Santoshnagar, Hyderabad – 500 059

### Daily Crop Weather Information as on 26 February 2022

**Attention: Rajiv Maheshwari, OSD, ICAR**

#### Significant Weather Features (IMD)

- Weather Systems and associated forecast & warnings:
- 1. The Western Disturbance is seen as a trough in middle & upper tropospheric levels with its axis at 5.8 km above mean sea level roughly along Long. 72°E to the north of Lat. 30°N. The associated induced cyclonic circulation lies over central parts of Rajasthan & neighbourhood in lower tropospheric levels. Under their influence:
  - Scattered to fairly widespread light/moderate rainfall/snowfall with thunderstorm & lightning at isolated places very likely over Jammu-Kashmir-GilgitBaltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand during next 24 hours. Isolated hailstorm also likely over Uttarakhand during next 24 hours.
  - Isolated to scattered light/moderate rainfall with thunderstorm & lightning at isolated places very likely over Punjab, north Haryana-Chandigarh and northwest Uttar Pradesh during next 24 hours. Isolated hailstorm activity is also likely over northwest Uttar Pradesh during next 24 hours.
  - Strong surface winds (25-35 kmph) very likely to prevail over north Rajasthan, Haryana, Delhi & adjoining West Uttar Pradesh today, the 26th February, 2022.
  - Isolated light/moderate rainfall very likely over Bihar, Jharkhand, West Bengal-Sikkim and north Odisha during next 2 days with thunderstorm & lightning at isolated places over the region during next 24 hours.
  - Scattered to fairly widespread rainfall over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during next 2 days with isolated thunderstorm & lightning over Arunachal Pradesh, West Assam & Meghalaya during next 24 hours.
- 2. A cyclonic circulation in lower & mid-tropospheric levels lies over Strait of Malacca & neighbourhood. It is likely to emerge over south Andaman Sea & neighbourhood around 27th February, 2022. Under its influence, a Low Pressure Area is likely to form over Southeast Bay of Bengal & adjoining south Andaman Sea during subsequent 24 hours. Under its influence:
  - Fairly widespread to widespread light/moderate rainfall with thunderstorm, lightning & gusty winds (30-40 kmph gusting to 50 Kmph) over

AndamanNicobar Islands during 27th Feb-01st March. Isolated heavy rainfall also very likely over Nicobar Islands on 27th & 28th February and over south coastal Tamilnadu on 02 March 2022.

•Squally winds (40-50 gusting to 60 Kmph) very likely over south Andaman Sea & adjoining Southeast Bay of Bengal during 27th & 28th Feb, over Southeast & adjoining Southwest Bay of Bengal on 01st March and over Southwest & adjoining Southeast Bay of Bengal on 02nd March, 2022. Fishermen are advised not to venture into these areas.

- 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 Jammu-Kashmir-Ladakh-GilgitBaltistan-Muzaffarabad, Himachal Pradesh and Assam-Meghalaya; at many places over Punjab, Haryana-Chandigarh-Delhi, Sub-Himalayan West BengalSikkim and Arunachal Pradesh; at a few places over Uttarakhand and Gangetic West Bengal and at isolated places over Uttar Pradesh, Rajasthan, Bihar, Jharkhand, Odisha Nagaland-Manipur-Mizoram-Tripura, Tamilnadu-Puducherry-Karaikal, Kerala-Mahe and Andaman & Nicobar Islands.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated to scattered places over Jammu-Kashmir-LadakhGilgit-Baltistan-Muzaffarabad, Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh, Jharkhand, Assam & Meghalaya and Sub-Himalayan West Bengal & Sikkim.
- Hailstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Punjab and West Uttar Pradesh and at a few places over Haryana & Delhi.
- Minimum Temperature Departures (as on 26-02-2022): Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at isolated places over East Rajasthan and Andaman-Nicobar Islands; above normal (1.6°C to 3.0°C) at many places over Punjab, Haryana-Chandigarh-Delhi, Vidarbha, Chhattisgarh and Jharkhand; at a few places over Madhya Pradesh, East Uttar Pradesh and Marathwada; at isolated places over Gujarat state, Madhya Maharashtra, Odisha and Kerala-Mahe. They are appreciably below normal (-3.1°C to -5.0°C) at a few places over Coastal Andhra Pradesh-Yanam; below normal (-1.6°C to -3.0°C) at many places over South Interior Karnataka and Rayalaseema; at a few places over Jammu-Kashmir-Ladakh-Gilgit-BaltistanMuzaffarabad; at isolated places over West Bengal-Sikkim and Tamilnadu-Puducherry-Karaikal and near normal over

rest parts of the country. Today, the lowest minimum temperature of 10.0°C is reported at Khajuraho (East Madhya Pradesh) over the plains of the country.

- Maximum Temperature Departures (as on 25-02-2022): Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over West Rajasthan; above normal (1.6°C to 3.0°C) at a few places over Kerala & Mahe and at isolated places over Haryana, Chandigarh & Delhi, East Rajasthan, West Madhya Pradesh and Gujarat Region. They were markedly below normal (-5.1°C or less) at isolated places over Gangetic West Bengal; appreciably below normal (-3.1°C to -5.0°C) at a few places over Jammu-Kashmir-Gilgit-Baltistan-Muzaffarabad and below normal (-1.6°C to -3.0°C) at many places over Bihar; at a few places over Sub-Himalayan West Bengal & Sikkim and at isolated places over East Madhya Pradesh, Odisha, Coastal Andhra Pradesh, Rayalaseema and Tamilnadu-Puducherry-Karaikal and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 37.2°C was reported at Ahmadnagar (Madhya Maharashtra) over the country.

#### **Weather Warning during the next 5 days (IMD)**

- 26 February (Day 1): Thunderstorm accompanied with lightning & gusty winds (speed 30-40 kmph) at isolated places very likely over west Assam & Meghalaya; with lightning & hail at isolated places over Uttarakhand and northwest Uttar Pradesh and with lightning at isolated places over JammuKashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Punjab, north Haryana-Chandigarh, Arunachal Pradesh and Andaman & Nicobar Islands.
- 27 February (Day 2): Heavy rainfall at isolated places very likely over Nicobar Islands. Thunderstorm accompanied with lightning & gusty winds (speed 30-40 kmph) at isolated places very likely over Andaman & Nicobar Islands and with lightning at isolated places over Bihar, Jharkhand, West Bengal-Sikkim and Arunachal Pradesh. Squally Weather (speed 40-50 kmph gusting to 60 kmph) very likely over south Andaman Sea & adjoining Southeast Bay of Bengal. Fishermen are advised not to venture into these areas.
- 28 February (Day 3): Heavy rainfall at isolated places very likely over Nicobar Islands. Thunderstorm accompanied with lightning & gusty winds (speed 40-50 kmph) at isolated places very likely over Andaman & Nicobar Islands. Squally Weather (speed 40-50 kmph gusting to 60 kmph) very likely over south Andaman Sea & adjoining Southeast Bay of Bengal. Fishermen are advised not to venture into these areas.
- 01 March (Day 4): Squally Weather (speed 40-50 kmph gusting to 60 kmph) likely over Southeast & adjoining Southwest Bay of Bengal. Fishermen are advised not to venture into these areas.

- 02 March (Day 5): Heavy rainfall at isolated places likely over coastal Tamilnadu-PuducherryKaraikal. Squally Weather (speed 40-50 kmph gusting to 60 kmph) likely over Southwest & adjoining Southeast Bay of Bengal. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 26 Feb to 06 Mar 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)

### **Maharashtra-Vidarbha**

#### **Weather condition:**

Weekly average means (08 MW) at AICRPAM Akola centre: T max 33.8°C (normal 33.3°C), T min 14.5°C (normal 14.1°C). RH I 72 % (normal 54 %), RH II 27 % (normal 22 %). Evaporation rate 6.2 mm (normal 7.1 mm), Wind speed 2.1 km/hr (normal 5.3 km/hr) and BSH 8.1 hrs (normal 9.0 hrs). Maximum temperature across the week was 0.5°C above normal with a deviation of -1.6 to 2.3°C from normal. Minimum temperature across the week 0.4°C above normal with a deviation of -3.5 to 3.6°C from normal.

#### **Contingency measure:**

- Block level forecast (Akola) indicates mainly dry weather on during 25 February to 01 March. Continue timely harvest of earlier sown chickpea when the majority of the plants are yellow and most pods are mature.
- In wheat crop field for rodent damage management during grain filling and ripening stages minimize /destroy the alternate food sources and secured habitation by removing the weeds and crop residues in/ around the fields. Close all the burrows in the wheat fields, field bunds, canal bunds and 0.0surrounding barren lands etc. Count the re-opened burrows on the wheat field and treat the burrows with burrow smoking using straw or other natural smoking materials or use recommended preferably non-chemical poison bait.
- Undertake harvest of safflower when 90-95% capsules mature and leaves? colour becomes brownish. Combine harvester could be used for harvesting and threshing of safflower and keep harvested produce safely.
- Undertake need based inter-culture operation in summer groundnut, sunflower and sesame to keep the crop weed free through initial 6 to 7 weeks. With assured irrigation facility during peak summer months.
- Sowing of summer greengram (Pusa Vaishakhi, PKV-AKM-4 (Vaibhav)) can be

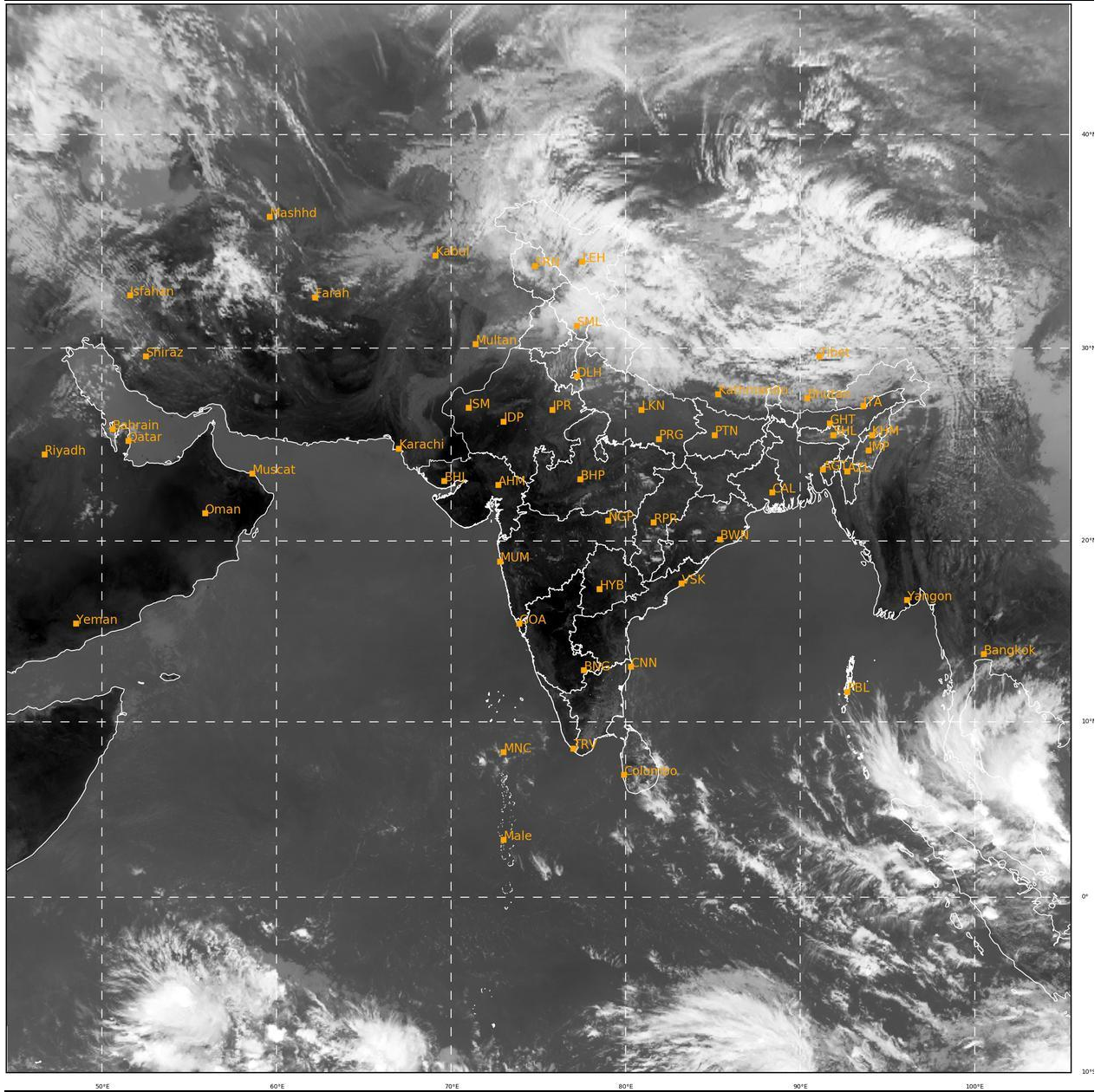
continued till 15 March. Recommended @12-15 kg seed/ha and fertilizer @ 20:40:20 kg/ha N:P:K is advisable for summer greengram. Seed treatment with Trichoderma 4g/kg seed and, Rhizobium and PSB (each 250g / 10-15 kg seed) is advisable for summer greengram.

- Considering irrigation facility and market response, cultivation of leafy vegetables (fenugreek, spinach, coriander, etc.), radish, carrot, okra, cluster bean, tinda, etc can be initiated during this period.
- In orange and sweet orange, undertake application of Bordeaux paste on tree trunk to protect the crop from gummosis and dieback. In citrus orchards, continue drip irrigation at the rate of 9-40, 60-96 and 108-137 litres per day for 1-4, 5-7, 8 years and above trees old respectively. Follow irrigation with double ring method or square method if there is no drip system. Irrigate citrus orchard at 7 to 10 days interval.
- For livestock green feed, with availability of irrigation water, undertake sowing of fodder maize (African tall) or fodder sorghum (Pusa fodder, MP fodder, SSG-898) for green fodder in summer.



SAT : INSAT-3D IMG  
IMG\_TIR1 10.8 um  
LIC Mercator

26-02-2022/(0800 to 0827) GMT  
26-02-2022/(1330 to 1357) IST

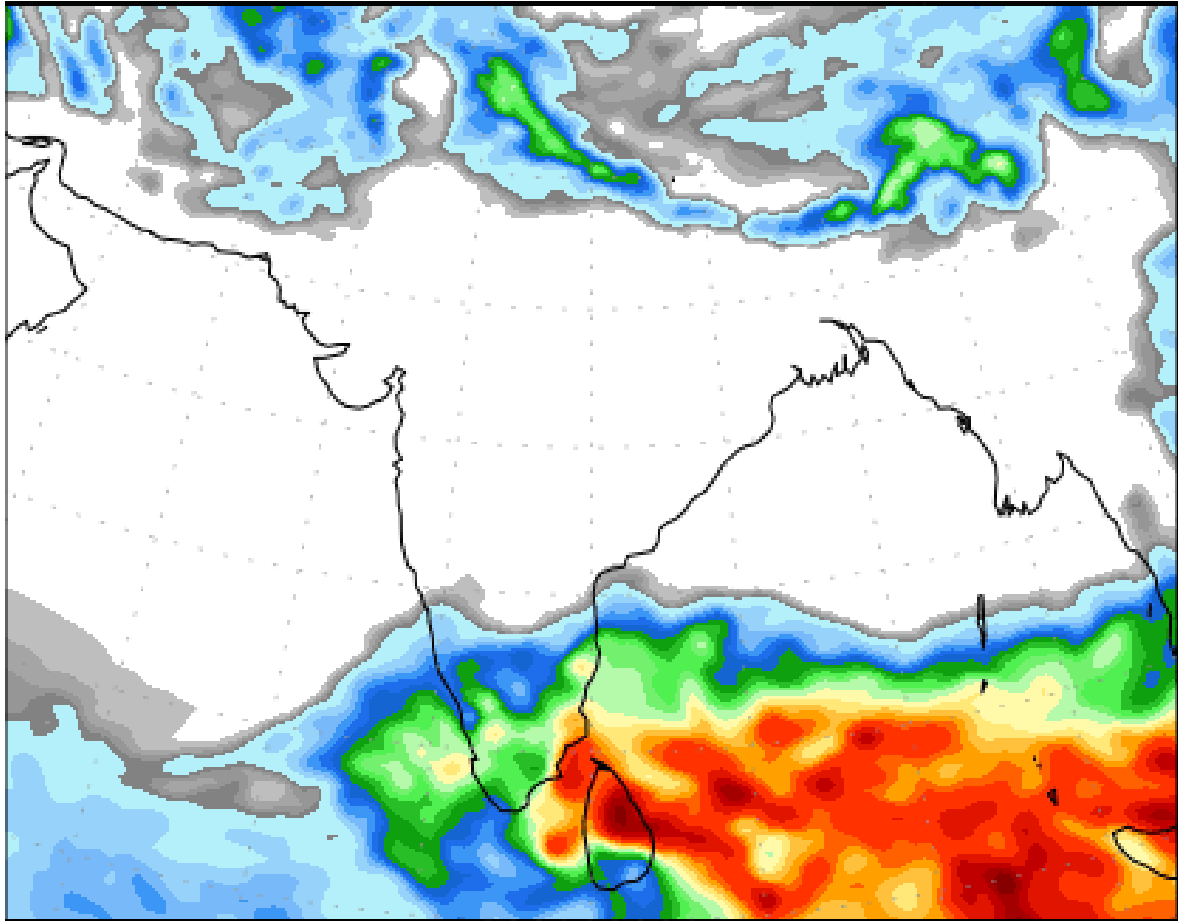


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IMD, DELHI

Figure: 1. Latest available satellite picture as on 26 Feb 2022 at 1357 Hrs (IST). (Source: IMD).



**Figure:2. Precipitation forecast for 26 Feb to 06 Mar 2022 (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.*