

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

**Daily Crop Weather Information as on 04 March 2022**

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

**Significant Weather Features (IMD)**

- The Depression over southwest Bay of Bengal moved northnorthwestwards with a speed of about 15 kmph during last 06 hours and lay centered at 0830 hrs IST of today, the 4th March 2022, over the same region near latitude 8.9°N and longitude 82.9°E, about 180 km east of Trincomalee (Sri Lanka), 390km southeast of Nagappattinam (Tamil Nadu), 470 km southeast of Puducherry (Tamil Nadu) and about 530 km southsoutheast of Chennai (Tamil Nadu). It is likely to intensify further into a Deep Depression during next 12 hours. It is likely to move northnorthwestwards off east coast of Sri Lanka till 05th March morning and then move westnorthwestwards towards north Tamil Nadu Coast during subsequent 48 hours. Under its influence:
- Rainfall forecast & Warnings:
  - i) Light to moderate rainfall/thundershower at isolated places is likely over coastal Tamil Nadu, Puducherry & Karaikal, south coastal Andhra Pradesh and Rayalaseema on 04th March.
  - ii) Light to moderate rainfall/thunder shower at a few places with isolated heavy rainfall is very likely over north coastal Tamil Nadu, Puducherry & Karaikal; Light to moderate rainfall/thunder shower at isolated places is very likely over south coastal Andhra Pradesh and Rayalaseema on 05th March.
  - iii) Light to moderate rainfall/thunder shower at many places with heavy to very heavy rainfall at isolated places is very likely over coastal Tamil Nadu, Puducherry & Karaikal; Light to moderate rainfall/thunder shower with heavy falls at isolated places is very likely over south coastal Andhra Pradesh and Rayalaseema on 06th March.
  - iv) Light to moderate rainfall/thunder shower at many places with heavy to very heavy rainfall at isolated places is very likely over north Tamil Nadu, Puducherry & Karaikal; Light to moderate rainfall/thunder shower with heavy falls at isolated places is very likely over south coastal Andhra Pradesh and Rayalaseema on 07th March, 2022.
- Fishermen Warning: Fishermen are advised not to venture into Southwest & adjoining Westcentral Bay of Bengal, adjoining Equatorial Indian Ocean, Gulf of

Mannar, Comorin area and along & off Tamil Nadu, Puducherry and south Andhra Pradesh coasts till 6th March, 2022.

- Under the influence of the Western Disturbance over Jammu & neighbourhood and another one very likely to affect Western Himalayan Region & adjoining plains from the night of 5th March:
  - i) Isolated light rainfall/snowfall with isolated thunderstorm/lightning very likely over Western Himalayan Region on 04th & 05th March, 2022.
  - ii) Fairly widespread to widespread light/moderate rainfall/snowfall with isolated thunderstorm/lightning very likely over Jammu-Kashmir-Ladakh-GilgitBaltistan-Muzaffarabad & Himachal Pradesh and isolated light/moderate rainfall/snowfall with thunderstorm/lightning over Uttarakhand on 06th & 07th March, 2022.
  - iii) Isolated heavy rainfall is also very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 6th March 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 most places over Jammu-Kashmir-Ladakh-GilgitBaltistan-Muzaffarabad; at many places over Himachal Pradesh; at a few places over Punjab and Sub-Himalayan West Bengal & Sikkim and at isolated places over Uttarakhand, Haryana, West Uttar Pradesh, East Rajasthan, Madhya Pradesh, Arunachal Pradesh and Tamil Nadu-Puducherry-Karaikal.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Jammu division, Himachal Pradesh and East Madhya Pradesh.
- Maximum Temperature Departures (as on 03-03-2022): Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Coastal Karnataka; at a few places over Saurashtra & Kutch, Arunachal Pradesh and Assam & Meghalaya; at isolated places over East Madhya Pradesh, Kerala & Mahe and Konkan & Goa; above normal (1.6°C to 3.0°C) at many places over Haryana-Chandigarh-Delhi, West Uttar Pradesh and Nagaland-ManipurMizoram-Tripura; at a few places over West Madhya Pradesh and Odisha; at isolated places over Vidarbha and Coastal Andhra Pradesh & Yanam. They were appreciably below normal (-3.1°C to -5.0°C) at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and West Rajasthan; below normal (-1.6°C to -3.0°C) at a few places over East Uttar Pradesh, Rayalaseema, Tamilnadu-Puducherry-Karaikal and South Interior Karnataka; at

isolated places over Andaman & Nicobar Islands and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 38.5°C was reported at Nalgonda (Telangana) over the country.

- Minimum Temperature Departures (as on 04-03-2022): Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at a few places over Andaman & Nicobar Islands; at isolated places over Haryana-Chandigarh-Delhi; above normal (1.6°C to 3.0°C) at a few places over West Madhya Pradesh, Chhattisgarh, Arunachal Pradesh, Marathwada and Tamil Nadu-Puducherry-Karaikal; at isolated places over East Rajasthan, East Uttar Pradesh, East Madhya Pradesh, Gangetic West Bengal, Saurashtra & Kutch and Madhya Maharashtra. They are appreciably below normal (-3.1°C to -5.0°C) at a few places over Rayalaseema; below normal (-1.6°C to -3.0°C) at most places over Coastal Karnataka; at a few places over Coastal Andhra Pradesh-Yanam; at isolated places over East Rajasthan, Nagaland-Manipur-Mizoram-Tripura and Kerala-Mahe and near normal over rest parts of the country. Today, the lowest minimum temperature of 7.6°C is reported at Amritsar (Punjab) over the plains of the country.

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

- 04 March (Day 1):Thunderstorm accompanied with lightning at isolated places very likely over Uttarakhand, central & west Assam-Meghalaya and Nagaland-Manipur. Squally winds speed reaching 45-55 kmph gusting to 65 kmph very likely over Southwest & adjoining Westcentral Bay of Bengal, Gulf of Mannar and along & off north Tamil Nadu, Puducherry & South Andhra Pradesh coasts. Fishermen are advised not to venture into these areas.
- 05 March (Day 2): Heavy rainfall at isolated places very likely over coastal Tamil Nadu-Puducherry-Karaikal. Thunderstorm accompanied with lightning at isolated places very likely over Jammu-Kashmir-Ladakh-Gilgit-BaltistanMuzaffarabad and Tamil Nadu-Puducherry-Karaikal. Squally winds speed reaching 45-55 kmph gusting to 65 kmph very likely over Southwest & adjoining Westcentral Bay of Bengal, Gulf of Mannar and along & off north Tamil Nadu, Puducherry & South Andhra Pradesh coasts. Fishermen are advised not to venture into these areas.
- 06 March (Day 3): Heavy to very heavy rainfall at isolated places very likely over north coastal Tamil Nadu-PuducherryKaraikal and heavy rainfall at isolated places over south Coastal Andhra Pradesh and Rayalaseema.Heavy rainfall/snowfall at isolated places very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad. Thunderstorm accompanied with lightning & hail at isolated places very likely over Himachal Pradesh and with lightning at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad,

south Coastal Andhra Pradesh-Yanam, Rayalaseema and Tamil Nadu-Puducherry-Karaikal. Squally winds speed reaching 40-50 kmph gusting to 60 kmph very likely to prevail over Westcentral & adjoining Southwest Bay of Bengal and along & off north Tamil Nadu, Puducherry and south Andhra Pradesh coasts.

- 07 March (Day 4): Heavy to very heavy rainfall at isolated places likely over north Tamil Nadu-Puducherry-Karaikal and heavy rainfall at isolated places over south Coastal Andhra Pradesh and Rayalaseema. Thunderstorm accompanied with lightning at isolated places likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Rajasthan, Gujarat Region, south Coastal Andhra Pradesh-Yanam, Rayalaseema, Tamil Nadu-Puducherry-Karaikal and Kerala-Mahe.
- 08 March (Day 5): Heavy rainfall at isolated places very likely over Tamil Nadu-Puducherry-Karaikal. Thunderstorm accompanied with lightning at isolated places likely over East Rajasthan, Gujarat Region, Tamil Nadu Puducherry-Karaikal and Kerala-Mahe.
- The weather outlook for seven days i.e., 04 Mar to 12 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)

### **Jharkhand**

#### **Weather condition:**

During this week 12.4 mm rainfall has been received. Daily maximum and minimum temperature ranged from 24.8 to 27.5 and 8.5 to 14.6 deg C, respectively. Weekly maximum and minimum temperature were 25.9 and 11.6 deg C against its normal value of 26.6 and 11.7 deg C, respectively.

#### **Contingency measure:**

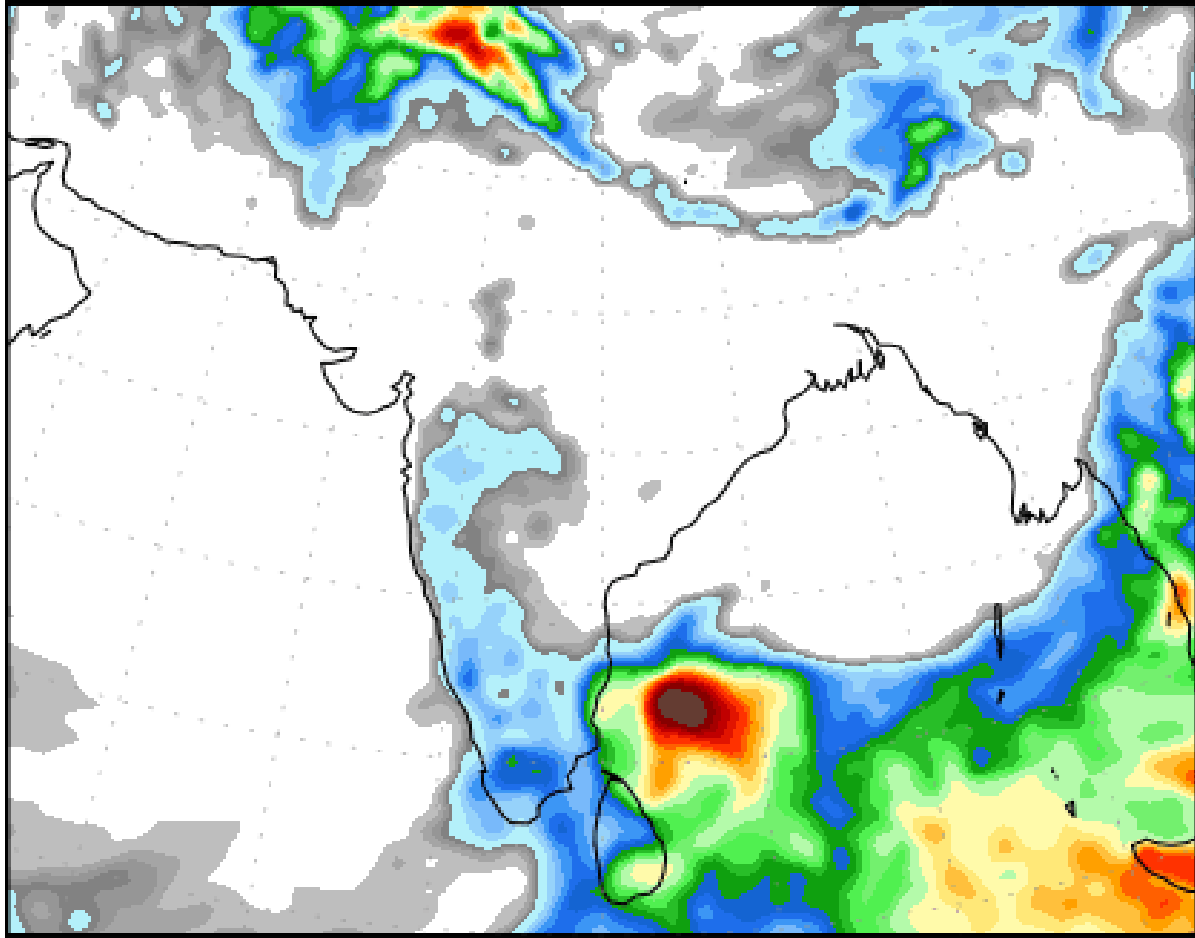
- General: Proceed for sowing/transplanting of various vegetables/green gram/fodder crops immediately after expected rain. Inter-culture operation must be performed to conserve soil moisture in standing crop/vegetable field. After digging of potato, farmers having assured irrigation facility may proceed for cultivation of summer vegetables and if having meagre irrigation facility may proceed for green gram cultivation.
- Rice: Maintain water level in earlier transplanted field and broadcast Blue Green algae @ 4 kg per acre after 15 days of transplanting. To control weeds in the field,

use cono weeder after 25-30 days of transplanting. Cono weeder not only destroys the weeds but also increases soil aeration, which ultimately helps in emergence of more and more tillers from the plant.

- Wheat: In crop field, if the weed Phalaris minor (Genhu ka mama) and ear head affected with loose smut disease (in which ear head appears black and does not bear any grain) appears, destroy them carefully after burning. This operation is essential for those who will use this crop as seed during next year.
- Green Gram: Farmers wish to cultivate green gram may prepare their field and select recommended variety SML-688. For 1 acre of land 12 kg seeds are required. Seeding may be done at a distance of 30 cm (row to row) and 10 cm (plant to plant). Before seeding the seed must be treated with Rhizobium culture (if available).
- Chick Pea: Timely sown crops are at pod formation stage. If the crops are attacked by pod borer insect, spray insecticide profenofos @ 2 ml per litre of water. However farmers, wishing to sell green pod of gram, may spray bioinsecticide like delphin @ 2 gm per litre of water.
- Brinjal: Stem and Fruit borer in brinjal crops can be controlled by using Feromon Trap without use of any insecticide. 10 Pheromone trap should be installed in one acre for effective control of the insects. In those fields, where crop of brinjal and tomato affected by wilt disease (in which standing plant slowly and slowly dried up) may be corrected by mixing of karanj cake in soil @ 40 kg per acre and during planting solution of bleaching powder should apply near root zone of the seedling.







**Figure:2. Precipitation forecast for 04 Mar to 12 Mar 2022 (Source: NOAA NCEP).**

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