

All India Coordinated Research Project on Agrometeorology

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Daily Crop Weather Information as on 15 February 2022

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Significant Weather Features (IMD)

- Weather Systems and associated forecast & warnings:
- Northeasterly winds are prevailing over coastal Tamil Nadu in lower tropospheric levels. Under its influence, isolated rainfall very likely over south Tamil Nadu and south Kerala and Lakshadweep Islands during next 2 days.
- Under the influence of the Western Disturbance as a trough in middle & upper tropospheric westerlies along Long. 73°E to the north of Lat. 30°N; isolated light rainfall/snowfall very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 15th & 16th and over Himachal Pradesh and Uttarakhand on 15th February, 2022.
- Under the influence of another Western Disturbance; isolated to scattered light rainfall/snowfall very likely over JammuKashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh from 17th to 20th February, 2022.
- Under the influence of trough in easterly over Andaman Sea at lower tropospheric levels; fairly widespread to widespread rainfall very likely over Andaman & Nicobar Islands during next 5 days with thunderstorm accompanied with lightning during 15th-17th February 2022. Isolated heavy rainfall also likely over Andaman & Nicobar Islands during next 24 hours.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rainfall observed (from 0830 hours IST of yesterday to 0830 hours IST today): at many places over Andaman & Nicobar Islands; at a few places over Lakshadweep and at isolated places over Tamil Nadu-Puducherry-Karaikal and Kerala & Mahe.
- Fog observed (at 0830 hours IST today)(500 m or less): Lucknow, Fursatganj, Varanasi and Ganganagar-500 each.
- Shallow fog observed in isolated pockets over West Rajasthan and East Uttar Pradesh.
- Minimum Temperature Departures (as on 15-02-2022): Minimum temperatures are above normal (1.6°C to 3.0°C) at isolated places over Rajasthan, Gujarat state,,

West Madhya Pradesh, Madhya Maharashtra, Marathawada, Andaman & Nicobar Is Tamilnadu-Puducherry-Karaikal and Kerala-Mahe. They are appreciably below normal (-3.1°C to -5.0°C) at most places over Odisha, Gangetic West Bengal, Bihar, Jharkhand, Nagaland-Manipur-Mizoram-Tripura and Assam-Meghalaya; at isolated places over Coastal Andhra Pradesh-Yanam and Uttar Pradesh; below normal (-1.6°C to -3.0°C) at a few places over East Madhya Pradesh, Vidarbha, Chhattisgarh and at isolated places over Himachal Pradesh, Haryana-Chandigarh-Delhi and SubHimalayan West Bengal-Sikkim and near normal over rest parts of the country. Today, the lowest minimum temperature of 6.6°C reported at Karnal (Haryana) over the plains of the country.

- Maximum Temperature Departures (as on 14-02-2022): Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over West Rajasthan and Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; above normal (1.6°C to 3.0°C) at most places over Himachal Pradesh, Punjab, Haryana-Chandigarh-Delhi; at isolated places over West Madhya Pradesh, Gujarat state, Konkan & Goa, Assam & Meghalaya and Kerala & Mahe. They were below normal (-1.6°C to -3.0°C) at most places over Gangetic West Bengal and Bihar; at a few places over Odisha and East Uttar Pradesh; at isolated places over East Madhya Pradesh, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Tamilnadu, Puducherry & Karaikal and Andaman & Nicobar Islands and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 35.4°C was reported at Cannur (Kerala & Mahe) over the country.

Weather Warning during the next 5 days (IMD)

- 15 February (Day 1): Heavy rainfall at isolated places very likely over Andaman & Nicobar Islands. Thunderstorm accompanied with lightning at isolated places very likely over Andaman & Nicobar Islands.
- 16 February (Day 2): Thunderstorm accompanied with lightning at isolated places very likely over Andaman & Nicobar Islands.
- 17 February (Day 3): Thunderstorm accompanied with lightning at isolated places very likely over Andaman & Nicobar Islands.
- 18 February (Day 4): No weather warning.
- 19 February (Day 5): No weather warning.
- The weather outlook for seven days i.e., 15 Feb to 23 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)

Jharkhand

Weather condition:

During this week 14.2 mm rainfall has been received. Daily maximum and minimum temperature ranged from 21.3 to 26.2 and 5.0 to 16.4 deg C, respectively. Weekly maximum and minimum temperature were 23.7 and 9.5 deg C against its normal value of 24.2 and 9.7 deg C, respectively.

Contingency measure:

- General: Irrigate the crops / vegetables field at a regular interval to maintain soil moisture. Intercultural operation also helps in conserving soil moisture. Farmers having assured irrigation facility and wish to cultivate summer vegetables may proceed for sowing. Seeds of cucurbitaceous plant like sponge gourd, Bottle gourd, pumpkin, water melon, musk melon etc. may be sown in pit at specified spacing. Farmers having meagre irrigation facility may proceed for green gram cultivation.
- Rice: Farmers may start transplanting with 21 days old seedlings. Before transplanting, field may be ploughed repeatedly (for puddling) and apply full dose of fertilizer at the time of final land preparation. Plant 2 - 3 seedlings at a spacing of 20 cm (Row to Row) and 15 cm (Plant to Plant). Broadcast urea in 10 - 12 days old seedlings @ 2 kg per 10 dismil of nursery bed and maintain the soil moisture of nursery bed.
- 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.
- Potato: In potato crop, which is approaching maturity stage within 7- 10 days, remove the upper leaves of the plant. Removing of leaves helps in hardening of the tuber and its skin. After digging of early potato, farmers having assured irrigation facility, may prepare the field for cultivation of different summer vegetables like cauliflower, cabbage, lady's finger, tomato, brinjal, capsicum and cucurbitaceous vegetables.

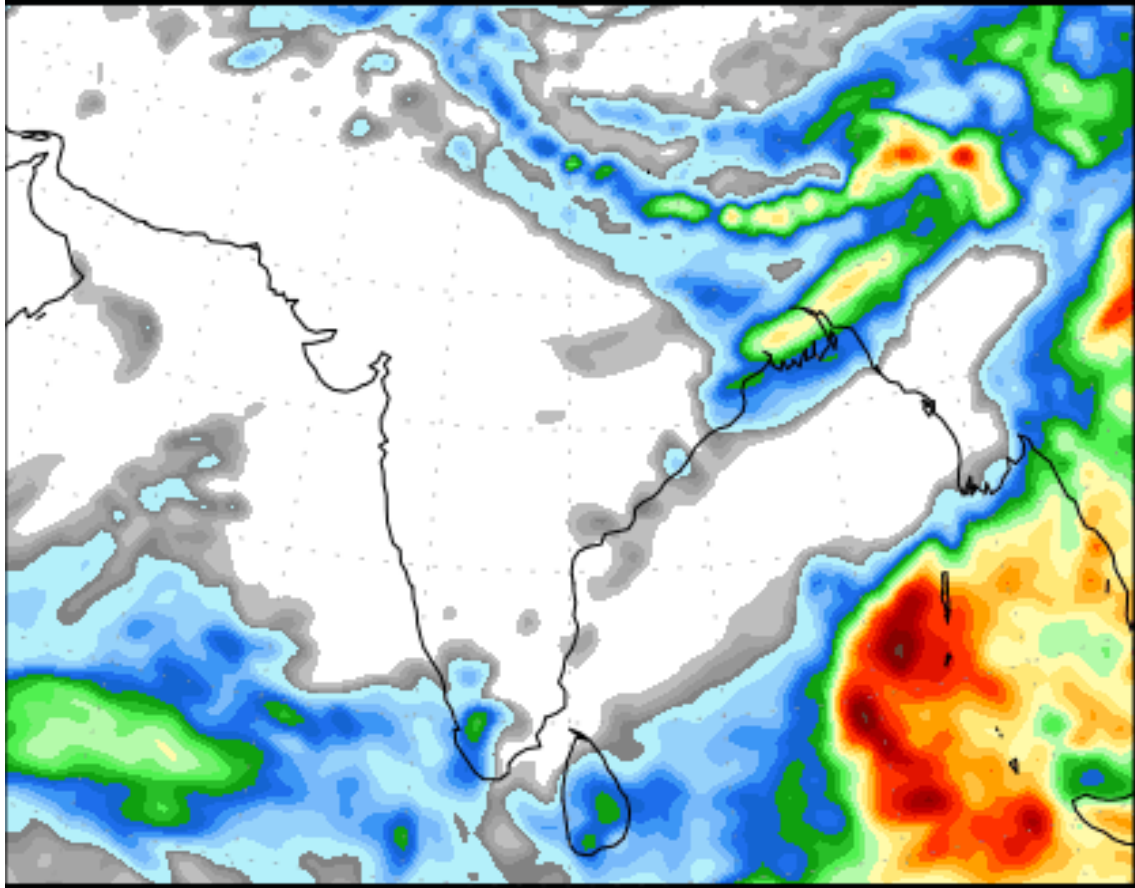


Figure:2. Precipitation forecast for 15 Feb to 23 Feb 2022 (Source: NOAA NCEP).

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