

All India Coordinated Research Project on Agrometeorology

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Daily Crop Weather Information as on 16 February 2022

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Significant Weather Features (IMD)

- Weather Systems and associated forecast & warnings:
- Due to northeasterly winds over coastal Tamil Nadu in lower tropospheric levels, isolated light/moderate rainfall very likely over south Tamil Nadu and Kerala during next 5 days and scattered light/moderate rainfall over Lakshadweep Islands during next 2 days.
- Under the influence of two successive feeble Western Disturbances; isolated light rainfall/snowfall very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during next 5 days and over Himachal Pradesh during 18th to 20th and over Uttarakhand on 20th February, 2022.
- Under the influence of cyclonic circulation over Equatorial Indian Ocean and adjoining Southeast Bay of Bengal & South Andaman Sea at lower tropospheric levels; Fairly widespread to widespread rainfall with thunderstorm/lightning very likely over Andaman & Nicobar Islands during next 3 days and reduce thereafter. Isolated heavy rainfall also likely over Andaman & Nicobar Islands during next 24 hours.
- Isolated light rainfall very likely over Sub-Himalayan West Bengal-Sikkim during next 5 days and over Gangetic West Bengal, Odisha, Bihar and Jharkhand on 20th February, 2022.
- Isolated light rainfall likely over Madhya Pradesh on 18th & 19th and over Chhattisgarh on 19th & 20th February, 2022.
- 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 most places over Andaman & Nicobar Islands; at a few places over Lakshadweep and at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, South Interior Karnataka, Kerala-Mahe and Tamil Nadu-Puducherry-Karaikal.

- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST today): at isolated places over Uttarakhand and KeralaMahe.
- Fog observed (at 0830 hours IST today): Dense fog in isolated pockets over north Punjab; Moderate fog in isolated pockets over West Uttar Pradesh and Shallow fog in isolated pockets over Delhi and East Uttar Pradesh.
- Minimum Temperature Departures (as on 16-02-2022): Minimum temperatures are above normal (1.6°C to 3.0°C) at a few places over Gujarat State and Andaman & Nicobar Islands; at isolated places over West Rajasthan and Kerala-Mahe. They are appreciably below normal (-3.1°C to -5.0°C) at many places over Gangetic West Bengal; at a few places over Odisha; at isolated places over Assam-Meghalaya and Coastal Andhra Pradesh-Yanam; below normal (-1.6°C to -3.0°C) at most places over Jharkhand; at many places over Haryana-Chandigarh-Delhi; at few places over Himachal Pradesh, Arunachal Pradesh and Nagaland-Manipur-MizoramTripura; at isolated places over East Uttar Pradesh, East Rajasthan, Madhya Pradesh, Madhya Maharashtra, Sub-Himalayan West BengalSikkim, Bihar and Tamil Nadu-Puducherry-Karaikal and near normal over rest parts of the country. Today, the lowest minimum temperature of 5.1°C reported at Pantnagar (Uttarakhand) over the plains of the country.
- Maximum Temperature Departures (as on 15-02-2022): Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Assam & Meghalaya; above normal (1.6°C to 3.0°C) at most places over West Rajasthan; at many places over Haryana, Chandigarh & Delhi; at isolated places over Himachal Pradesh and SubHimalayan West Bengal & Sikkim. They were appreciably below normal (-3.1°C to -5.0°C) at a few places over Gangetic West Bengal; at isolated places over East Madhya Pradesh and Tamil Nadu-Puducherry-Karaikal; below normal (-1.6°C to -3.0°C) at most places over Bihar, Jharkhand, Chhattisgarh, North Interior Karnataka and Rayalaseema; at many places over Konkan & Goa and Coastal Andhra Pradesh & Yanam; at a few places over Uttar Pradesh, Telangana and Andaman & Nicobar Islands; at isolated places over East Rajasthan, West Madhya Pradesh, Odisha and Saurashtra & Kutch and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 35.7°C was reported at Coimbatore (Tamil Nadu) over the country.

Weather Warning during the next 5 days (IMD)

- 16 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.

- 17 February (Day 2): Thunderstorm accompanied with lightning at isolated places very likely over Andaman & Nicobar Islands.
- 18 February (Day 3): No weather warning.
- 19 February (Day 4): Thunderstorm accompanied with lightning at isolated places likely over Arunachal Pradesh.
- 20 February (Day 5): Thunderstorm accompanied with lightning at isolated places likely over Arunachal Pradesh and Assam & Meghalaya.
- The weather outlook for seven days i.e., 16 Feb to 24 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 0.8 °C lower and actual minimum temperature was 0.6 °C higher as compared to its normal. Total BSS was 63.1 hrs. with an average of 9.0 hrs. The daily average evaporation and wind speed was 3.4 mm and 2.8 km/hr respectively. The daily average RH during morning and afternoon was 85.6 % and 32.7 % respectively.

Contingency measure:

- Wheat: grain filling/milking : Termite : To control termite apply chlorpyrifos 20 EC 2 to 2.5 liter/ha with irrigation water.
- Mustard : Pod development/maturity : Apply irrigation according to soil type and climatic condition. Protect crop from bird damage. two to three spray of Mancozeb 75 WB 27 g in 10 liter water at 15 days interval for control of leaf blight and rust. Prepare the land by doing by 2-3 ploughing with cultivator to pulverize the soil. Apply 10 t/ha well decomposed FYM. Procure seeds of varieties of pearl millet crop select hybrid varieties like GHB-538, 558, 719, 732, 744, 905 etc.
- 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: Pod development : 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.



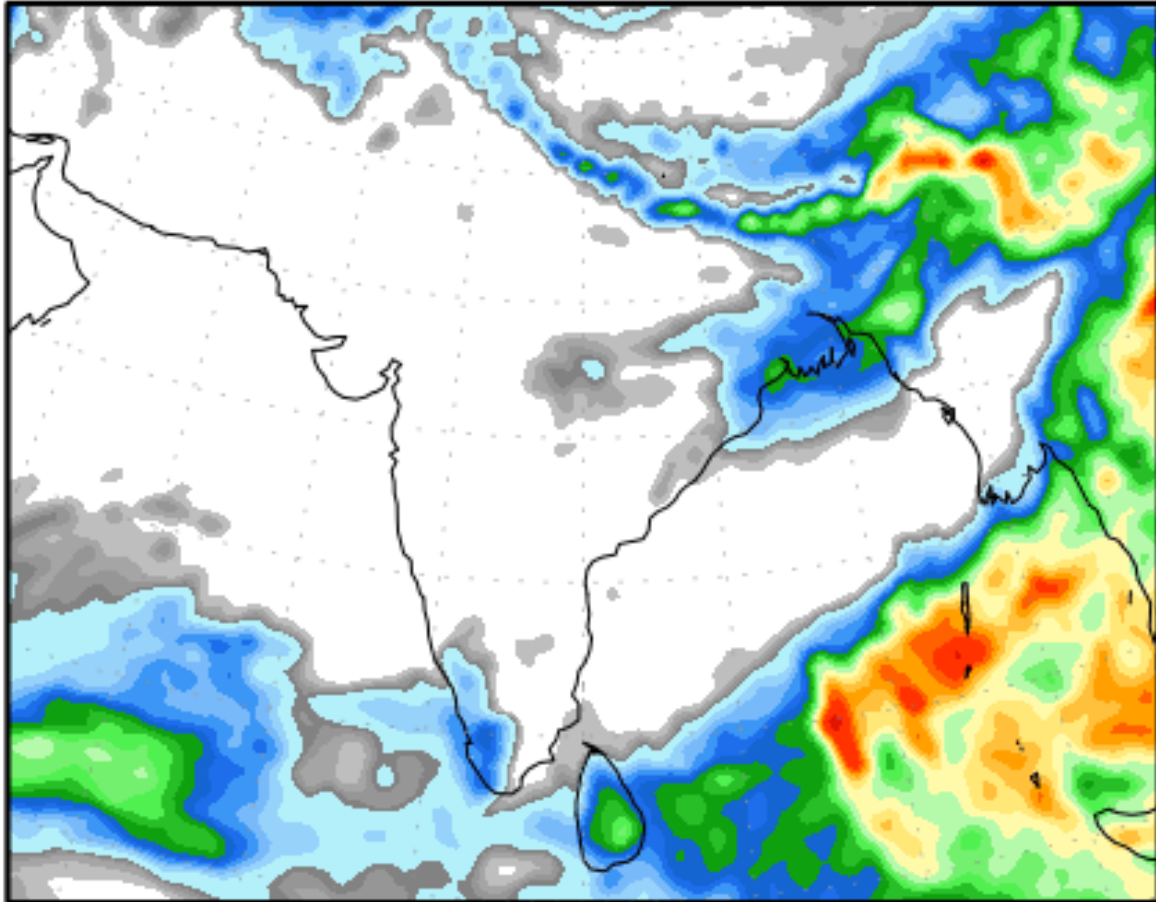


Figure:2. Precipitation forecast for 16 Feb to 24 Feb 2022 (Source: NOAA NCEP).

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