

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 01 April 2022

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Heat Wave conditions Forecast:
- Heat wave conditions in some parts very likely over Madhya Pradesh during next 5 days. Isolated Heat Wave conditions over Rajasthan during next 5 days; over Himachal Pradesh, south Haryana-Delhi, southwest Uttar Pradesh, Gujarat state, Vidarbha, Chhattisgarh, Jharkhand on 01st & 02nd April; over Telangana on 02nd & 03rd April and over East Uttar Pradesh, Madhya Maharashtra on 01st April, 2022.
- Rainfall Forecast & Warnings:
- Under the influence of a north-south trough from east Bihar to Northwest Bay of Bengal and strong southwesterly winds from Bay of Bengal to northeastern States at lower tropospheric levels; fairly widespread to widespread light/moderate rainfall over Arunachal Pradesh, Assam-Meghalaya & Nagaland, Manipur, Mizoram & Tripura during next 5 days with thunderstorm/lightning over the region on 01st & 02nd April.
- Isolated heavy rainfall likely over Assam-Meghalaya & Arunachal Pradesh during next 5 days; over Nagaland, Manipur on 01st April and over Sub-Himalayan West Bengal-Sikkim on 03rd & 04th April. Isolated very heavy rainfall also likely over Assam-Meghalaya 01st, 03rd & 04th & Arunachal Pradesh on 03rd & 04th April, 2022. Under the influence of trough/wind discontinuity over south Peninsular India,
- Light isolated rainfall very likely over Kerala-Mahe, Tamilnadu-Puducherry-Karaikal, Coastal & South Interior Karnataka during next 5 days and over Coastal Andhra Pradesh & Telangana on 05th April.
- Isolated thunderstorm/lightning activity also very likely over Tamilnadu on 01st April and over Kerala & Mahe during next 5 day
- 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 Sub-Himalayan West Bengal Sikkim & Arunachal Pradesh; many places over Assam-Meghalaya and at isolated places over Nagaland-Manipur-Mizoram-Tripura, Coastal Andhra Pradesh, Coastal & South Interior Karnataka, Kerala-Mahe and Tamilnadu, Puducherry-Karaikal.
- Heat Wave to Severe Heat Wave conditions observed in some pockets of Himachal Pradesh, south Haryana and Delhi and Heat Wave conditions in most parts of East Madhya Pradesh; in many parts of Rajasthan; in some pockets of West Madhya Pradesh and in isolated pockets of south Uttar Pradesh, Madhya Maharashtra and Vidarbha.
- Extremely heavy rainfall observed over Meghalaya and Heavy to very heavy Rainfall at isolated places over Assam and Arunachal Pradesh.
- Maximum Temperature Departures (as on 31-03-2022): Maximum temperatures were markedly above normal (5.1°C or more) at most places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh; at many places over Punjab, Haryana, Chandigarh & Delhi, West Rajasthan and East Madhya Pradesh; at a few places over Uttarakhand; at isolated places over Uttar Pradesh, East Rajasthan and Madhya Maharashtra; appreciably above normal (3.1°C to 5.0°C) at most places over Chhattisgarh and Vidarbha; at many places over Jharkhand; at a few places over Odisha, Gujarat state, Marathwada and Telangana; at isolated places over Bihar and Konkan & Goa; above normal (1.6°C to 3.0°C) at most places over Rayalaseema; at a few places over Gangetic West Bengal, North Interior Karnataka, Tamilnadu-Puducherry-Karaikal and Kerala & Mahe; at isolated places over Coastal Andhra Pradesh-Yanam. They were appreciably below normal (-3.1°C to -5.0°C) at isolated places over Arunachal Pradesh and Assam & Meghalaya; below normal (-1.6°C to -3.0°C) at isolated places over Sub-Himalayan West Bengal & Sikkim and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 44.0°C is reported at Chandrapur (Vidarbha) over the country.
- Minimum Temperature Departures (as on 01-04-2022): Minimum temperatures are markedly above normal (5.1°C or more) at a few places over West Rajasthan and at isolated places over Himachal Pradesh, Haryana, Chandigarh & Delhi, East Rajasthan and Bihar; appreciably above normal (3.1°C to 5.0°C) at most places over Gangetic West Bengal; at many places over East Uttar Pradesh; at a few places over Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya and at isolated places over Punjab, Uttarakhand, Madhya Pradesh, Saurashtra &

Kutch, Coastal Andhra Pradesh & Yanam and Odisha; above normal (1.6°C to 3.0°C) at most places over Rayalaseema; at a many places over Odisha; at a few places over Jammu-Kashmir-Ladakh-GilgitBaltistan-Muzaffarabad, Gujarat Region, Vidarbha, Coastal Karnataka, Telangana, Tamil Nadu Puducherry & Karaikal, Jharkhand and Nagaland, Manipur, Mizoram & Tripura and at isolated places over Konkan & Goa and Madhya Maharashtra and near normal over rest parts of the country. Today, the lowest minimum temperature of 14.5°C is reported at Baramati and Pune (Madhya Maharashtra) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 01 April (Day 1): Heat wave conditions in some parts very likely over Rajasthan and Madhya Pradesh and in isolated pockets over Himachal Pradesh, south Haryana-Delhi, south Uttar Pradesh, Gujarat State, Vidarbha, Chhattisgarh, Jharkhand and Madhya Maharashtra. Thunderstorm accompanied with lightning at isolated places very likely over Assam-Meghalaya, Nagaland-ManipurMizoram-Tripura, Arunachal Pradesh, Tamilnadu-Puducherry-Karaikal and Kerala-Mahe. Heavy to very Heavy rainfall at isolated places very likely over Meghalaya and Heavy rainfall at isolated places over Assam, Arunachal Pradesh and Nagaland-Manipur.
- 02 April (Day 2): Heat wave conditions in some parts very likely over Rajasthan and Madhya Pradesh and in isolated pockets over Himachal Pradesh, southwest Uttar Pradesh, south Haryana-Delhi, Gujarat State, Vidarbha, Jharkhand, Chhattisgarh and Telangana. Thunderstorm accompanied with lightning at isolated places very likely over Assam-Meghalaya, Nagaland-ManipurMizoram-Tripura, Arunachal Pradesh, Andaman-Nicobar Islands and Kerala-Mahe. Heavy rainfall at isolated places over Assam-Meghalaya, Nagaland-Manipur-Mizoram-Tripura, and Arunachal Pradesh.
- 03 April (Day 3): Heat wave conditions in some parts very likely over Madhya Pradesh; in isolated pockets over Rajasthan and southwest Uttar Pradesh. Thunderstorm accompanied with lightning at isolated places very likely over Andaman-Nicobar Islands, Sub-Himalayan West Bengal & Sikkim and Kerala-Mahe. Heavy to very Heavy rainfall at isolated places very likely over Assam-Meghalaya and Arunachal Pradesh and Heavy rainfall at isolated places over Sub-Himalayan West Bengal-Sikkim.
- 04 April (Day 4): Heat wave conditions in some parts likely over Madhya Pradesh and in isolated pockets over Rajasthan. Thunderstorm accompanied with lightning at isolated places likely over Sub-Himalayan West Bengal & Sikkim and Kerala-Mahe. Heavy to very Heavy rainfall at isolated places very likely over Assam-

Meghalaya and Arunachal Pradesh and Heavy rainfall at isolated places over Sub-Himalayan West Bengal-Sikkim.

- 05 April (Day 5): Heat wave conditions in some parts likely over Madhya Pradesh and in isolated pockets over Rajasthan. Thunderstorm accompanied with lightning at isolated places likely over Kerala-Mahe. Heavy rainfall at isolated places likely over Assam-Meghalaya and Arunachal Pradesh.
- The weather outlook for seven days i.e., 01 Apr to 09 Apr 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:

Daily maximum and minimum temperature ranged from 32.8 to 36.4 and 13.5 to 16.8 deg C, respectively. Weekly maximum and minimum temperature were 34.3 and 15.1 deg C against its normal value of 32.7 and 16.7 deg C, respectively.

Contingency measure:

- General: High day temperature with higher wind speed increases the water requirement of the plant. Hence irrigate all the crops/vegetables at a regular interval. Plough the land after harvesting of rabi crops. After ploughing, avoid planking to destroy the weeds and pests in open soil.
- Rice: Maintain water stagnation in the rice field. Broadcast second dose of urea after 40-45 days of transplanting. Weeding is must before urea application.
- Wheat: To maintain optimum soil moisture irrigate the field as per the need. In standing crop, if the ear head affected with loose smut disease (in which ear head becomes black and does not bear any grain) appears, destroy them carefully.
- Bottle Gourd: Those cucurbitaceous vegetables had achieved vigorous growth needs support of bamboo or any other woody material, so that leaves and fruits of the plant remain untouched with soil. If the crops are attacked by leaf eating insects, immediately spray the insecticide Chlorpyrifos @ 2 ml per liter of water. If the crop suffers with leaf blight, then spray the fungicide Kantaf @ 1 ml per liter of water.
- Brinjal: Stem and Fruit borer in brinjal crops can be controlled by using Feromon Trap without use of chemical insecticides. 10 Pheromone trap should be installed in one acre for effective control of the insects. If the crops are attacked by fruit rot and leaf spot disease, spray the fungicide Kavach @ 2 gm per liter of water.

- Tomato: At present, the vegetables like tomato, chilli, capsicum etc. may be attacked by viral disease (leaf curl disease) and the vector of this disease is white fly. To control the disease spray the insecticide Karate or Kungfu @ 2 ml. per liter of water.
- Mango: Irrigate the fruit bearing trees at regular interval. Spray Planofix @ 5 ml per 10 litre of water to check dropping of tiny litchi fruits.
- Goat: Present weather condition is favorable for the attack of T.P.R. disease in which animals suffer with high fever, accompanied with secretion of water droplets from their eyes and nose. The animals also showing the characteristics of Pneumonia disease. To control the disease animals should be vaccinated with T.P.R. vaccine. The dose are 1 ml per adult animal. However, vaccination should be avoided to baby (age less than 3 months) and pregnant animals. Precaution should be taken to avoid the animals grazing in the sun light and avail quality water for drinking.

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

01-04-2022/(0800 to 0826) GMT
01-04-2022/(1330 to 1356) IST

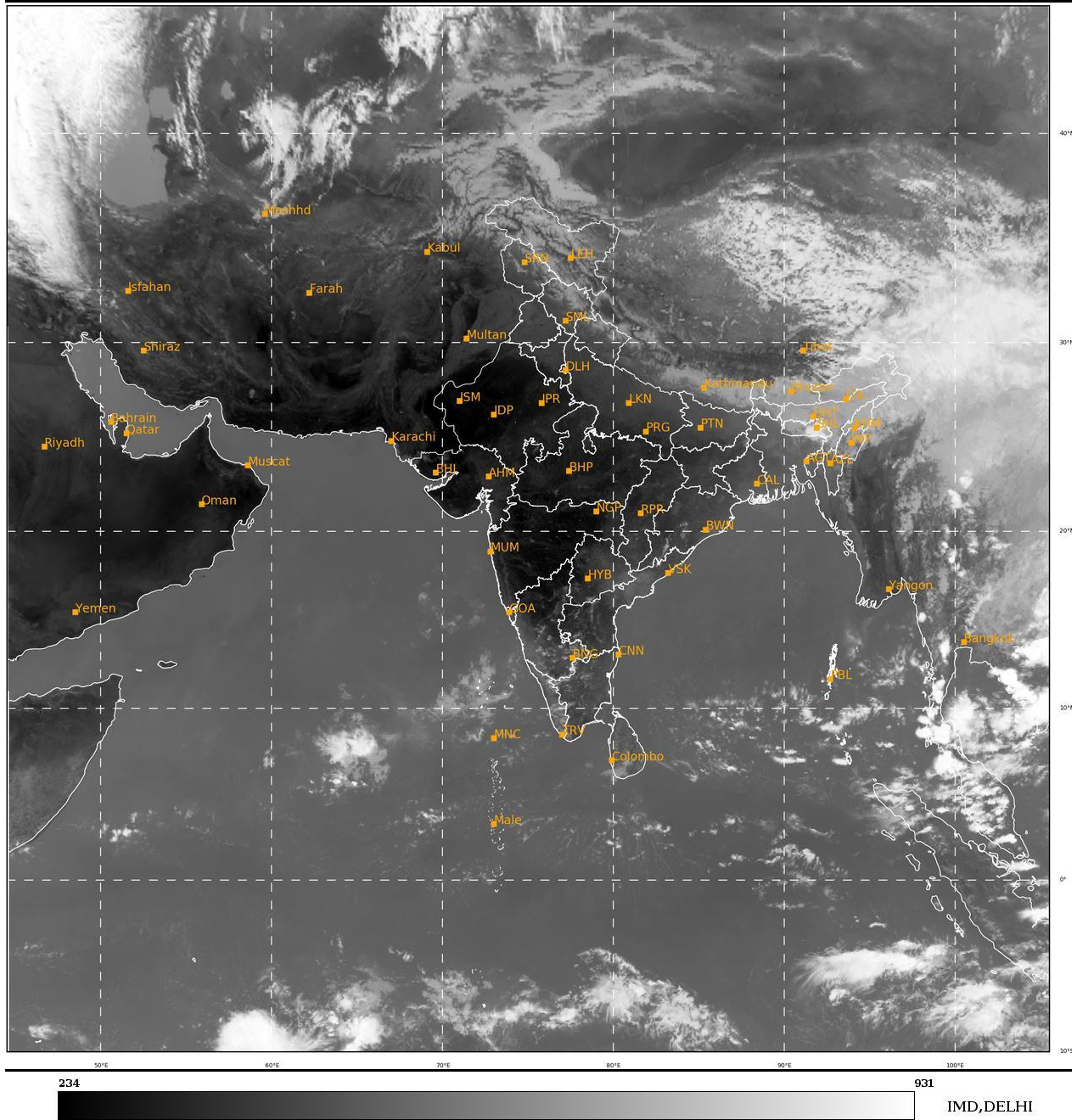


Figure: 1. Latest available satellite picture as on 01 Apr 2022 at 1356 Hrs (IST). (Source: IMD).

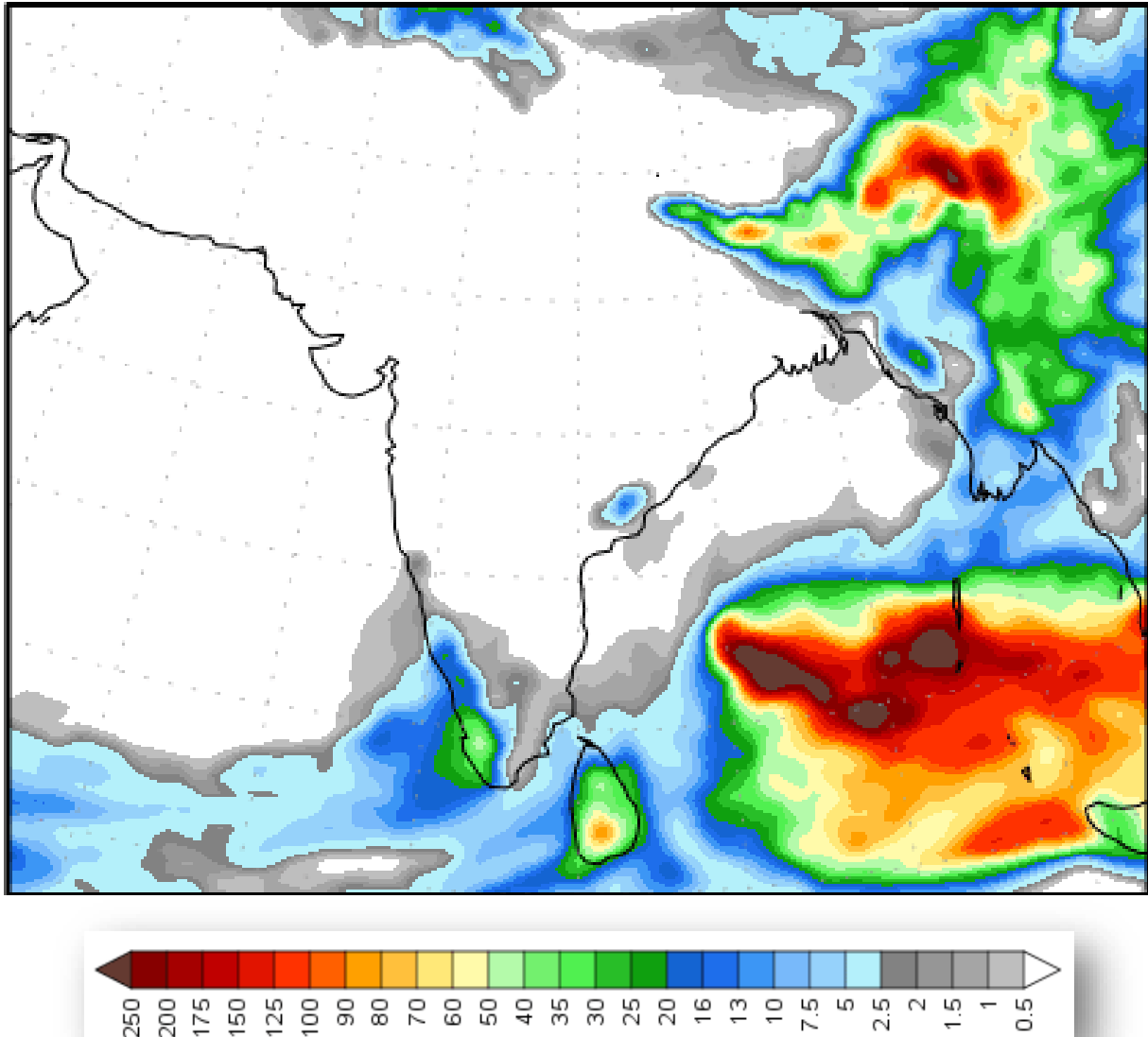


Figure:2. Precipitation forecast for 01 Apr to 09 Apr 2022 (Source: NOAA NCEP).

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