

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

**Daily Crop Weather Information as on 08 April 2022**

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

**Significant Weather Features (IMD)**

- Heat Wave Spell likely to continue over Northwest India, Madhya Pradesh, Vidarbha, Bihar and Jharkhand during next 5 days.
- Heat Wave conditions in most parts with severe heat wave conditions in many parts very likely over West Rajasthan; Heat Wave conditions in many parts with severe heat wave conditions in some parts over East Rajasthan; Heat Wave to severe heat wave conditions in isolated pockets over Punjab & south Haryana-Delhi during next 5 days; over West Uttar Pradesh during next 3 days and over Saurashtra-Kutch on 08th & 09th April.
- Heat Wave conditions in some parts very likely over Himachal Pradesh during next 4 days; over Madhya Pradesh during next 2 days and in isolated pockets during subsequent 3 days. Heat Wave conditions in isolated pockets very likely over Uttar Pradesh during next 5 days; over Jharkhand & Bihar during 09th to 12th; over Jammu division on 08th; over northern parts of Gujarat Region on 08th & 09th and over Vidarbha during 10th & 12th April, 2022. Rainfall Forecast & Warnings:
- Under the influence of strong southwesterly winds from Bay of Bengal to northeastern States at lower tropospheric levels:
  - i) Fairly widespread to widespread rainfall accompanied with thunderstorm/lightning very likely over Sub-Himalayan West Bengal-Sikkim, Arunachal Pradesh, Assam-Meghalaya and isolated/scattered rainfall over Nagaland, Manipur, Mizoram & Tripura during next 5 days.
  - ii) Isolated heavy rainfall very likely over Arunachal Pradesh on 09th & 10th; over Sub-Himalayan West Bengal-Sikkim during 08th-10th April; over Assam-Meghalaya during 09th-12th April. Isolated very heavy rainfall also very likely west Assam-Meghalaya during 10th-12th April, 2022.
- Under the influence of trough/wind discontinuity over south Peninsular India,
  - i) Light isolated/scattered rainfall accompanied with thunderstorm/lightning very likely over Kerala-Mahe, Lakshadweep, Tamil Nadu-Puducherry-Karaikal,

Coastal & South Interior Karnataka during next 5 days and over Coastal Andhra Pradesh during 09th-12th April.

ii) Isolated heavy rainfall likely over south Tamil Nadu & south Kerala on 08th & 09th April, 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 many places Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim and Andaman & Nicobar Islands; at a few places over Assam & Meghalaya and at isolated places over Odisha, Konkan & Goa, Madhya Maharashtra, Vidarbha, Chhattisgarh, Karnataka, Kerala-Mahe and Tamilnadu, Puducherry & Karaikal.
- Thunderstorm observed (from 0830 hrs IST of yesterday- 0830 hours IST of today): at isolated places over North Interior Karnataka, Assam & Meghalaya Kerala & Mahe, Tamilnadu, Puducherry & Kariakal and Odisha.
- Heat Wave Conditions at most parts with Severe Heat Wave conditions at few pockets are observed over West Rajasthan and Heat wave to severe heat wave condition in isolated pockets over Himachal Pradesh and Delhi; heat wave conditions over some parts of Jammu division, Haryana, East Rajasthan and in isolated pockets over Uttar Pradesh, Madhya Pradesh and Gujarat State.
- Maximum Temperature Departures (as on 07-04-2022): Maximum temperatures were markedly above normal (5.1°C or more) at most places over Himachal Pradesh and West Rajasthan; at a few places over Jammu & Kashmir and Haryana, Chandigarh & Delhi and at isolated places over Punjab, East Rajasthan, West Madhya Pradesh and Saurashtra & Kutch; appreciably above normal (3.1°C to 5.0°C) at a few places over Uttarakhand, Uttar Pradesh, East Madhya Pradesh, Jharkhand and Nagaland, Manipur, Mizoram & Tripura and at isolated places over Vidarbha and Assam & Meghalaya; above normal (1.6°C to 3.0°C) at a few places over Bihar, Marathwada, Coastal Karnataka and Tamilnadu-Puducherry-Karaikal and at isolated places over Madhya Maharashtra and Gangetic West Bengal. They were below normal (-1.6°C to -3.0°C) at many places over Assam-Meghalaya; at a few places over Andaman & Nicobar Islands and at isolated places over Coastal Andhra Pradesh & Yanam and near normal over rest parts of the country.
- Yesterday, the highest maximum temperature of 45.0°C was reported at Kandla Aerodrome (Saurashtra & Kutch) over the country.

- Minimum Temperature Departures (as on 08-04-2022): Minimum temperatures are markedly above normal (5.1°C or more) at isolated places over Himachal Pradesh and West Rajasthan; appreciably above normal (3.1°C to 5.0°C) at a few places over Punjab, Saurashtra-Kutch, Marathwada, Vidarbha and Bihar and at isolated places over East Uttar Pradesh, Madhya Pradesh and Madhya Maharashtra; above normal (1.6°C to 3.0°C) at many places over Gujarat Region and Sub-Himalayan West Bengal-Sikkim; at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttarakhand, HaryanaChandigarh-Delhi, Konkan & Goa, Chhattisgarh, Gangetic West Bengal, Andaman & Nicobar Islands and Nagaland, Manipur, Mizoram & Tripura and at isolated places over West Uttar Pradesh, East Rajasthan, Kerala & Mahe, Odisha and Tamilnadu, Puducherry & Karaikal. They are below normal (-1.6°C to -3.0°C) at isolated places over Coastal Andhra Pradesh & Yanam and near normal over rest parts of the country.
- Today, the lowest minimum temperature of 16.0°C is reported at Sikar (East Rajasthan) over the plains of the country.

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

- 8 April (Day 1): Heat wave conditions in most places with severe Heat wave conditions in many pockets very likely over West Rajasthan; heat wave conditions in many places with severe heat wave conditions in some parts over East Rajasthan; heat wave to severe heat wave conditions in isolated pockets over south Haryana-Delhi, Punjab, West Uttar Pradesh & Gujarat state and heat wave conditions in some parts over Himachal Pradesh, Madhya Pradesh and in isolated pockets over East Uttar Pradesh and Jammu division. Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph) at isolated places very likely over Assam-Meghalaya and Kerala-Mahe and with lightning at isolated places very likely over Sub-Himalayan West Bengal-Sikkim, Andaman-Nicobar Islands, Odisha, Konkan-Goa, Madhya Maharashtra, Coastal & North Interior Karnataka and Tamilnadu-Puducherry-Karaikal. Heavy rainfall at isolated places very likely over Sub-Himalayan West Bengal-Sikkim, south Kerala and south Tamil Nadu.
- 9 April (Day 2): Heat wave conditions in most places with severe heat wave conditions in many pockets very likely over West Rajasthan; heat wave conditions in many places with severe heat wave conditions in some parts over East Rajasthan; heat wave to severe heat wave conditions in isolated pockets over south Haryana-Delhi, Punjab, West Uttar Pradesh & Gujarat state and heat wave conditions in some parts over Himachal Pradesh, Madhya Pradesh and in isolated pockets over East Uttar Pradesh, Jharkhand and Bihar. Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph) at isolated places

very likely over Assam-Meghalaya and Kerala-Mahe and with lightning at isolated places over Sub-Himalayan West Bengal-Sikkim, Coastal & North Interior Karnataka and Tamilnadu-Puducherry-Karaikal. Heavy rainfall at isolated places very likely over Assam-Meghalaya, Sub-Himalayan West Bengal-Sikkim, Arunachal Pradesh, south Kerala and south Tamil Nadu.

- 10 April (Day 3): Heat wave conditions in most places with severe heat wave conditions in many pockets very likely over West Rajasthan; heat wave conditions in many places with severe heat wave conditions in some parts over East Rajasthan; heat wave to severe heat wave conditions in isolated pockets over south Haryana-Delhi, Punjab & West Uttar Pradesh and heat wave conditions in some parts over Himachal Pradesh and in isolated pockets over East Uttar Pradesh, Madhya Pradesh, Jharkhand, Vidarbha and Bihar. Thunderstorm accompanied with lightning at isolated places likely over Assam-Meghalaya, Sub-Himalayan West Bengal-Sikkim, Odisha, Chhattisgarh, Lakshadweep and Kerala-Mahe. Heavy to very heavy rainfall at isolated places likely over west Assam-Meghalaya and heavy rainfall at isolated places over Arunachal Pradesh and SubHimalayan West Bengal-Sikkim.
- 11 April (Day 4): Heat wave to severe heat wave conditions in some parts likely over Rajasthan; in isolated pockets over south Haryana-Delhi & Punjab and heat wave conditions in some parts over Himachal Pradesh and in isolated pockets over Uttar Pradesh, Madhya Pradesh, Bihar, Jharkhand and Vidarbha. Thunderstorm accompanied with lightning at isolated places likely over Kerala-Mahe. Heavy to very heavy rainfall at isolated places likely over west Assam-Meghalaya.
- 12 April (Day 5): Heat wave to severe heat wave conditions in some parts likely over Rajasthan and heat wave conditions in isolated pockets over south Haryana-Delhi, Punjab, West Uttar Pradesh, Madhya Pradesh, Bihar, Jharkhand and Vidarbha. Thunderstorm accompanied with lightning at isolated places likely over Kerala-Mahe. Heavy to very heavy rainfall at isolated places likely over west Assam-Meghalaya.
- The weather outlook for seven days i.e., 08 Apr to 16 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)

### Tamil nadu

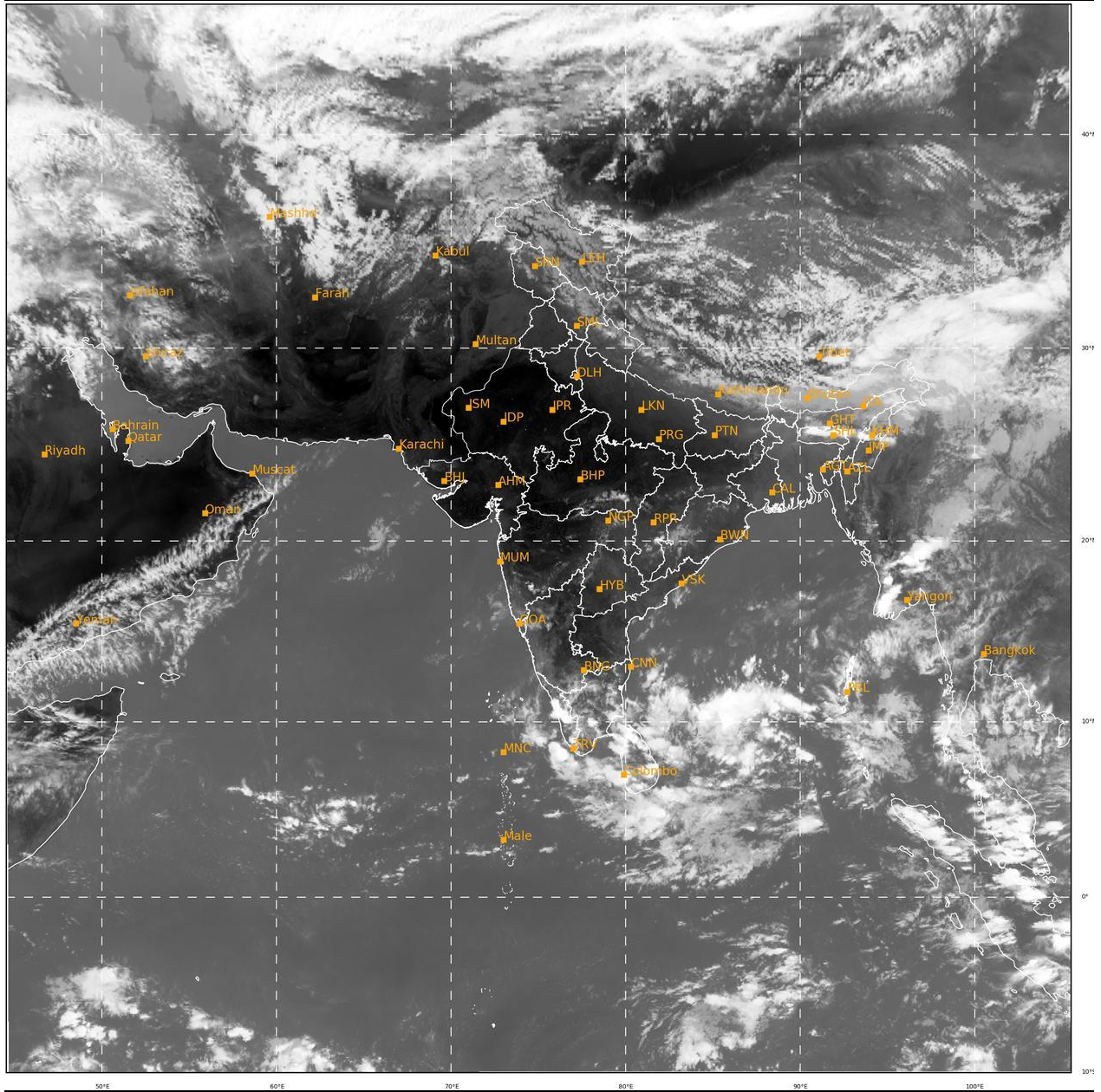
#### Weather condition:

With respect to daily rainfall, rainfall occurred at isolated places over Tamil Nadu on 02.04.2022, 03.04.2022, 04.04.2022, 05.04.2022, 06.04.2022 and 07.04.2022 during this week.→ Minimum temperature range of 21°C-28°C prevailed over the state except Kodaikanal and Uthagamandalam (07°C-12°C) during the period under report. Maximum temperature range of 32°C-40°C prevailed over the state except Kodaikanal and Uthagamandalam (18°C-24°C) during the period under report. Maximum temperature: 38.3°C (normal 37.5°C), minimum temperature: 23.1°C (normal 22.8°C), rainfall: 0.0 mm (normal 10.0 mm). The maximum and minimum temperature was 0.8°C and 0.7°C above normal respectively and the rainfall was 10.0 mm below normal across the week. General weather situation in Tamil Nadu:

#### Contingency measure:

- Irrigated crops-Water management-Very light rainfall is predicted for day 2 (07.04.2022), day 4 (09.04.2022) and day 5(10.04.2022). However, based on the local weather and crop requirement irrigation may be provided.
- Dry land-Farmers are requested to practice the summer ploughing based on the suitable soil moisture prevailing for ploughing. Irrigated crops-Soil moisture conservation-Farmers are advised to practice mulching in order to reduce the evaporation loss.
- Rainfed and Irrigated crops-All the stage Sucking pest infection is noticed under increased temperature. Farmers are advised to go for plant protection and nutrient spray based on crop specific and stage. Rice-Milking stage-Prevailing weather is conducive for False smut diseases. Spraying of copper oxychloride @2.5g / litre or propiconazole @1.0ml/litre to control the disease spread. Vegetative stage to milking stage-Prevailing weather is conducive for sheath blight diseases. Spraying of neem oil at 3% (15 lit/ha.) to control the disease spread at the initial stage. .
- Chilli-Flowering and fruiting stage-Prevailing weather is conducive for Fruit Rot and Die Back diseases. The first spraying should be given just before flowering and the second at the time of fruit formation. Third spraying may be given a fortnight after second spraying. Chemicals like wettable sulphur 0.2%, copper oxychloride 0.25% and Zineb 0.15% not only reduced the disease incidence but also increased the yield of fruits. Prevailing weather is aphid is noticed. To control spray Imidacloprid 17.8 % SL@ 3.5 ml/10 lit.

- Coconut-All stages-Rugose Spiralling whitefly is noticed in the prevailed weather condition. Application of water, maida solution as spray in order to increase the population of Encarsia parasitic. Also keep yellow stick trap.
- Jasmine-Flowering stage-Prevailing weather is conducive for Blossom midge. Spray Thiamethoxam 2.5% WG @ 0.75 g/litre (or) Novaluron 3ml/lit. of water.
- Citrus-Citrus Canker-Under the prevailing weather condition citrus canker disease is noticed. To control spray of Copper oxychloride (COC) @ 0.3% followed by 4 sprayings with Streptocyclin 100 ppm + COC @ 0.3 % at monthly intervals after pruning. Under the prevailing weather condition Citrus leaf miner is noticed. To control spray fenvalerate 0.2ml or dimethoate [Rogor] 2ml/l (or) Spray application of NSKE 5%
- Livestock-Chick Summer Management in Poultry: Heat stress in poultry especially broilers lead to huge economic loss. Signs of Heat stress: Less feed intake 2. Poor growth rate 3. High mortality. Management: 1. Long axis of the poultry house should be in east-west direction. Poultry house should have a width not more than 22-25 ft-to allow ample ventilation. Wet gunny bags should be arranged on the sides of the poultry house to prevent the entry of direct sun-rays into the shed. Feeding should be done in cool hours of the day. Vitamin C supplementation should be done. Cool drinking water should be provided. Addition of B-complex vitamins and electrolytes in the water will help to overcome the Heat Stress. Space allowance to the birds may be increased to 20% to reduce stocking density.
- Dairy animals-Farmers may provide 30-50 gram of mineral mixture per animal to improve the production and health status. To avoid parasitic infestation in diary animals farmers are advised to deworm and detick the animals in nearby veterinary dispensary.
- Banana-All stages-Under prevailing weather condition Wilt disease noticed. Soil drenching of Carbendazim 0.1 per cent solution around the pseudostem at bimonthly intervals starting from five months after planting.

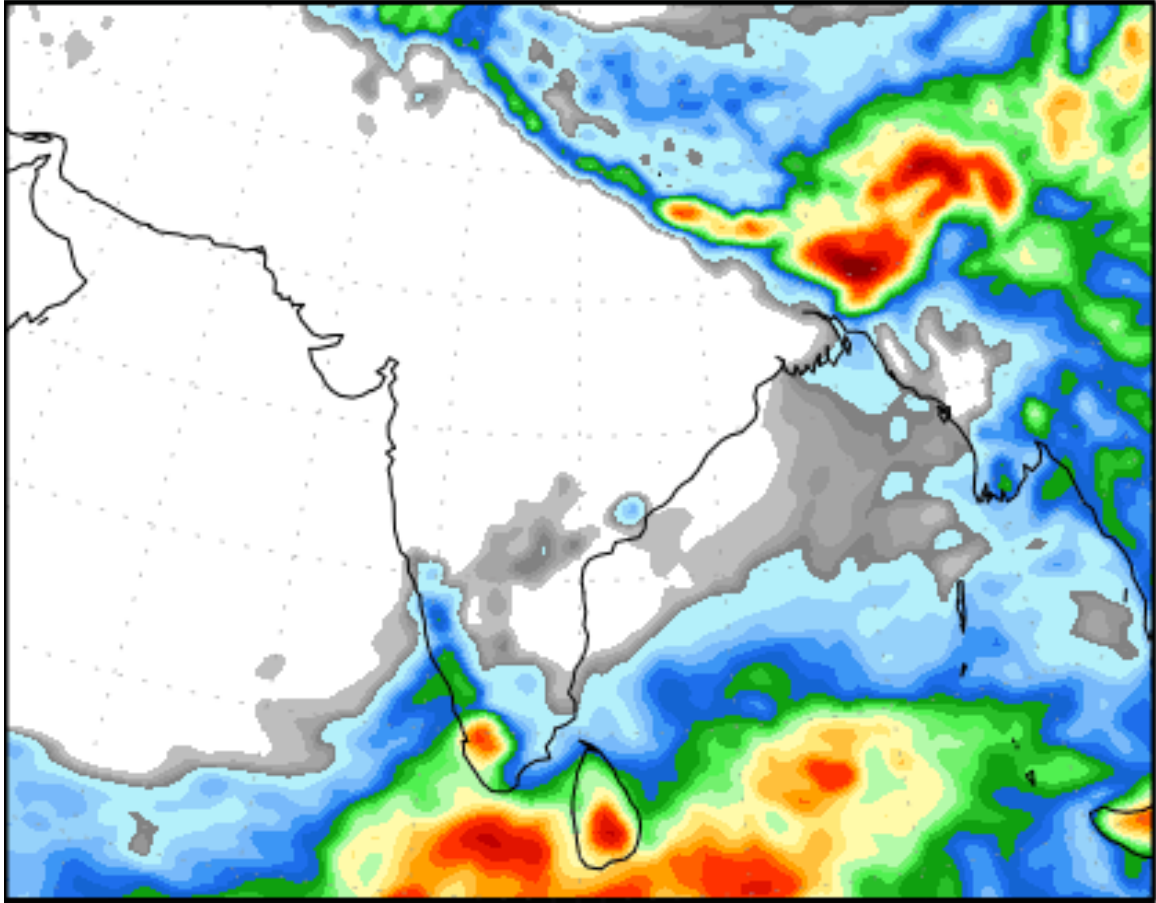


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IMD, DELHI

Figure: 1. Latest available satellite picture as on 08 Apr 2022 at 1356 Hrs (IST). (Source: IMD).



**Figure:2. Precipitation forecast for 08 Apr to 16 Apr 2022 (Source: NOAA NCEP).**

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