

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

Daily Crop Weather Information as on 23 April 2022

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Rainfall/thunderstorm Forecast & Warnings:
- Under the influence of strong southwesterly winds from Bay of Bengal to northeastern States at lower tropospheric levels:
 - i) Fairly widespread/widespread rainfall very likely over Arunachal Pradesh, Assam-Meghalaya, Nagaland-Manipur-Mizoram-Tripura and scattered rainfall over Sub-Himalayan West Bengal & Sikkim during next 5 days accompanied by isolated heavy rainfall over Arunachal Pradesh, Assam and Meghalaya during next two days.
 - ii) Thunderstorm/lightning/gusty winds (speed reaching 30-50 kmph) at isolated places very likely over Sub Himalayan West Bengal, Sikkim, Assam, Meghalaya during next five days and over Arunachal Pradesh, Nagaland-Manipur-Mizoram-Tripura during next two to three days.
- On account of the trough/wind discontinuity across central and peninsular India in the lower tropospheric levels during afternoon hours:
 - i) Isolated to scattered rainfall with thunderstorm/lightning/gusty winds (speed reaching 30-40 kmph) very likely over Kerala, Telengana during next 5 days; over Andhra Pradesh, Karnataka and Tamil Nadu during next two days; Chhattisgarh during next two days; over Vidarbha & Gangetic West Bengal during next 24 hours. Isolated hailstorm also likely over south Madhya Maharashtra today, the 23rd April 2022.
- Under the influence of the cyclonic circulation over Sri Lanka in lower tropospheric levels:
 - i) Isolated heavy rainfall likely over south Tamilnadu & south Kerala on 23nd April, 2022.
- Under the influence of the fresh Western Disturbance as a trough in middle tropospheric westerlies which is likely to affect the Indian region from 25th April:
 - i) Light isolated to scattered rainfall accompanied with isolated thunderstorm/lightning very likely over Western Himalayan Region and Duststorm/thunderstorm over adjoining plains of Punjab and Haryana on 25th April, 2022.

- Heat wave warnings:
- Heat wave conditions very likely to prevail in isolated pockets over Gujarat state during next 5 days; over south Uttar Pradesh, Madhya Pradesh, Madhya Maharashtra, Bihar, Jharkhand, Odisha, Gangetic West Bengal during 25th -27th; over Rajasthan, south Haryana, Vidarbha during 26th-27th 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 most places over Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura; at many places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Sub-Himalayan west Bengal & Sikkim, Assam & Meghalaya and North Interior Karnataka; at a few places over Madhya Maharashtra and Tamilnadu, Puducherry & Karaikal; at isolated places over Himachal Pradesh, Gangetic West Bengal, Odisha, Telangana and Coastal Karnataka.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Uttarakhand, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Telangana, Kerala & Mahe, Coastal & North Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Lakshadweep.
- Yesterday, no Significant Heat wave conditions prevailed.
- Maximum Temperature Departures (as on 22-04-2022): Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Konkan & Goa and Coastal Karnataka; at a few places over Gujarat state; above normal (1.6°C to 3.0°C) at many places over Arunachal Pradesh; at isolated places over Himachal Pradesh, Assam-Meghalaya, West Madhya Pradesh and Odisha. They were appreciably below normal (-3.1°C to -5.0°C) at many places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; at a few places over Chhattisgarh and below normal (-1.6°C to -3.0°C) at many places over Sub-Himalayan West Bengal-Sikkim, Nagaland-Manipur-Mizoram-Tripura and Telangana; at a few places over Gangetic West Bengal, Coastal Andhra Pradesh-Yanam, Tamilnadu-Puducherry-Karaikal and Andaman & Nicobar Islands and at isolated places over East Madhya Pradesh, Vidarbha and Madhya Maharashtra and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 43.8°C was reported at Fatehgarh (East Uttar Pradesh).

- Minimum Temperature Departures (as on 23-04-2022): Minimum temperatures are above normal (1.6°C to 3.0°C) at many places over West Rajasthan, Gujarat Region, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Gangetic west Bengal, Marathwada and Coastal Karnataka; at a few places over East Uttar Pradesh, Assam & Meghalaya, West Madhya Pradesh, Vidarbha, Telangana, Konkan & Goa and Madhya Maharashtra; at isolated places over Saurashtra & Kutch, East Madhya Pradesh and Tamilnadu, Puducherry & Karaikal. They were below normal (-1.6°C to -3.0°C) at most places over Haryana, Chandigarh & Delhi; at many places over East Rajasthan and at isolated places over West Madhya Pradesh and near normal over rest parts of the country. Today, the lowest minimum temperature of 17.3°C is reported at Meerut (West Uttar Pradesh) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 23 April (Day 1): Thunderstorm accompanied with lightning, hail & gusty winds (speed 30-40 kmph) at isolated places very likely over Madhya Maharashtra; with lightning/gusty winds (speed 40-50 kmph) at isolated places over Nagaland-Manipur-Mizoram-Tripura; with lightning/gusty winds (speed 30-40 kmph) at isolated places over Chhattisgarh, West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Konkan-Goa, Telangana, Kerala & Mahe and Lakshadweep and with lightning at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Vidarbha, Marathwada, Coastal Andhra Pradesh-Yanam, Rayalaseema, Karnataka and Tamilnadu-Puducherry-Karaikal. Heavy rainfall at isolated places very likely over Arunachal Pradesh, Assam-Meghalaya, Tamilnadu-Puducherry-Karaikal and Kerala-Mahe. Heat wave conditions in isolated pockets very likely over Gujarat State. Squally weather (wind speed reaching 40-50 kmph) very likely over Lakshadweep, adjoining Kerala coast and Comorin area.
- 24 April (Day 2): Thunderstorm accompanied with lightning & gusty winds (speed 40-50 kmph) at isolated places very likely over Assam & Meghalaya; with lightning/gusty winds (speed 30-40 kmph) at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Konkan & Goa and with lightning at isolated places over Chhattisgarh, Marathwada, Telangana, Coastal & North Interior Karnataka, Tamilnadu-Puducherry-Karaikal and Kerala & Mahe. Heavy rainfall at isolated places very likely over Arunachal Pradesh and Assam & Meghalaya. Heat wave conditions in isolated pockets very likely over Gujarat State.
- 25 April (Day 3): Thunderstorm accompanied with lightning & gusty winds (speed 40-50 kmph) at isolated places very likely over Assam & Meghalaya; with

lightning/gusty winds (speed 30-40 kmph) at isolated places over Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura and with lightning at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Telangana, Rayalaseema and Kerala & Mahe. Thunderstorm/Duststorm at isolated places very likely over Punjab and Haryana, Chandigarh & Delhi. Heat wave conditions in isolated pockets very likely over Uttar Pradesh, Madhya Pradesh, Bihar, Jharkhand, Gangetic West Bengal, Odisha, Gujarat State and Madhya Maharashtra.

- 26 April (Day 4): Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph) at isolated places over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and with lightning at isolated places over Telangana, Rayalaseema and Kerala & Mahe. Heat wave conditions in isolated pockets very likely over Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Bihar, Jharkhand, Gangetic West Bengal, Odisha, Gujarat State and Madhya Maharashtra.
- 27 April (Day 5): Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph) at isolated places over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and with lightning at isolated places over Telangana and Kerala & Mahe. Heat wave conditions in a few places likely over Rajasthan and in isolated pockets over Haryana, Chandigarh & Delhi, Uttar Pradesh, Madhya Pradesh, Vidarbha, Bihar, Jharkhand, Gangetic West Bengal, Odisha, Gujarat State and Madhya Maharashtra.
- The weather outlook for seven days i.e., 23 Apr to 01 May 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)

Maharastra-Vidarbha

Weather condition:

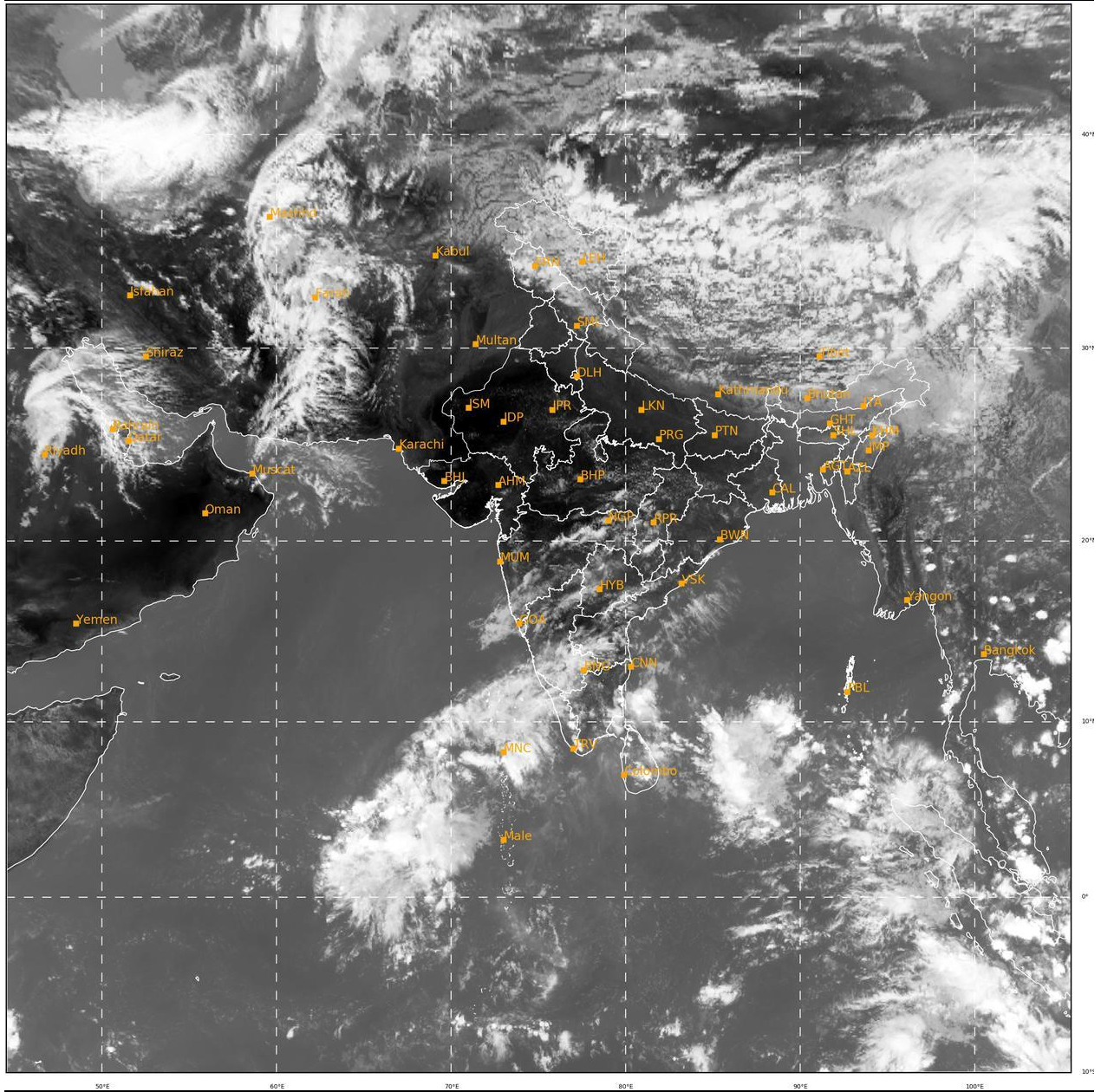
Weekly average means (16 MW) at AICRPAM Akola centre: T max 42.3°C (normal 41.5°C), T min 26.0°C (normal 24.0°C). RH I 37 % (normal 38 %), RH II 11% (normal 16 %). Evaporation rate 13.2 mm (normal 13.4 mm), Wind speed 5.7 km/hr (normal 8.4 km/hr) and BSH 8.9 hrs (normal 9.5 hrs). Maximum temperature across the week was 0.9°C above normal with a deviation of -0.4 to +2.0°C from normal. Minimum temperature across the week 2.0°C above normal with a deviation of +1.1 to +4.1°C from normal.

Contingency measure:

- Block level forecast (Akola) indicates prevalence of mainly dry weather during 22-26 April 2022. Maintain adequate moisture in the soil profile in growing summer crops, vegetables and orchards by applying irrigation during early morning or evening hours. Consider the soil moisture conditions and local weather condition in planning need based irrigation.
- For control of tikka disease in groundnut, undertake spray of Chlorothalonil 75%WP @ 20g OR Propiconazole 25% EC 10 ml OR Tebuconazole 25.9% EC @ 10 ml per 10 litres of water. Depending upon the severity of disease if needed second spray can be undertaken after 15 days alternating the fungicide.
- Undertake timely spray for control of jassids/thrips in summer sunflower by using Imidacloprid 17.8 % @ 2.0 ml in 10 liters of water during clear weather condition. For control of sesamum phyllody, remove and destroy infected plants. To control vector- jassids, undertake spray of quinalphos 25% @ 20 ml per 10 litres of water. Depending upon the market demand picking of green pods is advisable for better monetary benefit of green gram.
- In orange orchards with amba bahar fruit bearing, to prevent fruit drop and better fruit retention make sure to irrigate timely and frequently during hot spells. Undertake basin mulching in orchards around tree trunk up to 5-10 cm thickness with crop residues/uprooted weeds, which helps protect the tree from drying out between watering, maintain soil thermal regime, fruit succulence and protect against the loss of immature fruit.
- Undertake need based spray for onion and garlic during clear weather for control of sucking pests and fungal disease by spraying of quinalphos 25 % EC 12 ml + mancozeb 25 g + sandovit stickers in 10 liters of water.
- Provide sufficient feed/forage, cold water, shelter from heat and follow proper grazing time (morning/evening) for farm/milch animals. Also give them protein-fat bypass supplement and mineral mixture in diet.

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

23-04-2022/(0800 to 0826) GMT
23-04-2022/(1330 to 1356) IST



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IMD,DELHI

Figure: 1. Latest available satellite picture as on 23 Apr 2022 at 1356 Hrs (IST). (Source: IMD).

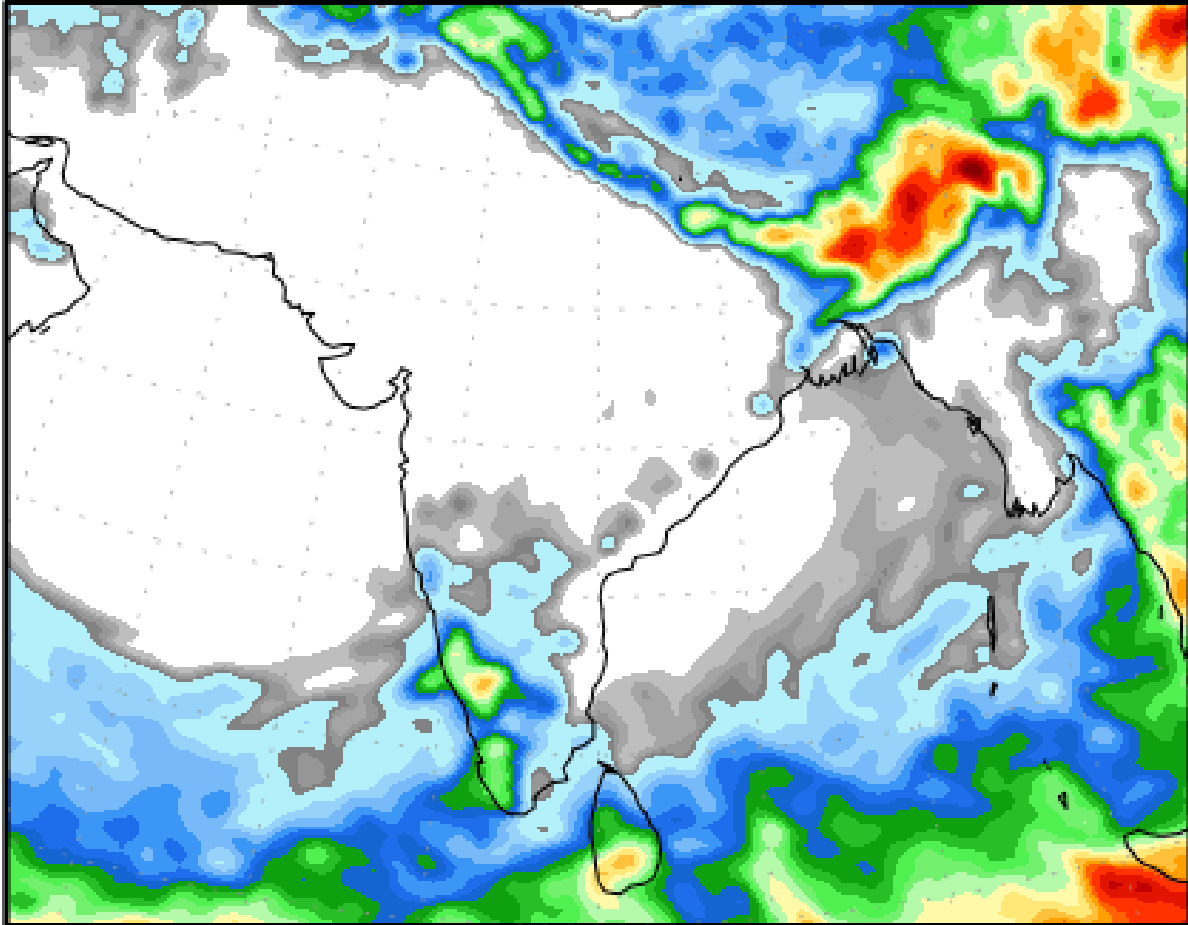


Figure:2. Precipitation forecast for 23 Apr to 01 May 2022 (Source: NOAA NCEP).

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