

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

Daily Crop Weather Information as on 05 April 2022

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Heat Wave Spell likely to continue over most parts of Northwest India & Madhya Pradesh during next 5 days.
- Heat Wave conditions in many parts with severe heat wave conditions in isolated pockets very likely over West Rajasthan during next 5 days and Heat Wave to Severe heat wave conditions in some parts over Uttar Pradesh & East Rajasthan during next 5 days and in isolated pockets over south Haryana-Delhi during next 5 days.
- Heat Wave conditions in isolated pockets over Madhya Pradesh, Jammu division & Himachal Pradesh during next 5 days; over Vidarbha during 05th-07th April; over Gujarat state, north Madhya Maharashtra, Chhattisgarh, Jharkhand & Bihar on 05th & 06th 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 very likely over Arunachal Pradesh, Assam-Meghalaya and isolated rainfall over Nagaland, Manipur, Mizoram & Tripura during next 5 days.
 - ii) Isolated very heavy rainfall very likely over Meghalaya on 05th April, 2022. Isolated heavy rainfall also likely over Assam-Meghalaya and Arunachal Pradesh on 05th & 06th and over Sub-Himalayan West Bengal-Sikkim during 05th-08th April, 2022.
 - iii) Isolated thunderstorm/lightning activity also very likely over Assam-Meghalaya, Arunachal Pradesh, Nagaland, Manipur and Sub-Himalayan West Bengal-Sikkim during 05th- 07th April, 2022.
- Under the influence of trough over south Peninsular India,
 - i) Light isolated/scattered rainfall very likely over Kerala-Mahe, Tamilnadu-Puducherry-Karaikal, Coastal & South Interior Karnataka during next 5 days; over North Interior Karnataka & Coastal Andhra Pradesh on 05th & 06th April.

ii) Isolated thunderstorm/lightning activity also very likely over Tamilnadu-Puducherry-Karaikal & Karnataka on 05th & 06th April and over Kerala & Mahe during next 5 days.

- An upper air cyclonic circulation likely to form over South Andaman Sea & neighbourhood on 06th April. Under its influence, a Low Pressure Area is likely to form over Southeast Bay of Bengal during subsequent 24 hours. Under its influence:
- Squally Weather (wind speed reaching 40-50 kmph gusting to 60 kmph) likely over South Andaman & adjoining Southeast Bay of Bengal on 05th & 06th; over central parts of South Bay of Bengal on 07th; over southwest Bay of Bengal 08th; over southwest Bay of Bengal and along & off Sri Lanka coast on 09th April 2022. Fishermen are advised not to venture into these areas
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rainfall/thundershower observed (from 0830 hrs IST of yesterday-0830 hours IST of today): at most places over AssamMeghalaya, Arunachal Pradesh and Sub-Himalayan West Bengal & Sikkim; at a few places over Andaman-Nicobar Islands and at isolated places over Konkan & Goa, Madhya Maharashtra, Odisha, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- Heavy to Very Heavy rainfall with extremely heavy falls observed at isolated places over Meghalaya; Heavy to Very Heavy rainfall at isolated places over Arunachal Pradesh and heavy rainfall at isolated places over Assam.
- Thunderstorm observed (from 0830 hours IST of yesterday-0830 hours IST of today): at isolated places over North Interior Karnataka, Kerala-Mahe, Tamil Nadu-Puducherry-Karaikal and Assam-Meghalaya.
- Yesterday, Heat Wave conditions in most pockets with Severe Heat Wave conditions in isolated pockets observed over West Rajasthan; Severe Heat Wave conditions in isolated pockets over Himachal Pradesh; Heat Wave conditions in some pockets over Madhya Pradesh and in isolated pockets over East Rajasthan, Uttar Pradesh, south Haryana-Delhi, Bihar, Jharkhand and Gujarat state.
- Maximum Temperature Departures (as on 04-04-2022): Maximum temperatures were markedly above normal (5.1°C or more) at most places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Punjab; at many places over Uttarakhand, West Rajasthan, West Uttar Pradesh; at a few places over Haryana-Chandigarh-Delhi, East Rajasthan, East Madhya Pradesh,

Jharkhand and at isolated places over East Uttar Pradesh and West Madhya Pradesh; appreciably above normal (3.1°C to 5.0°C) at many places over Bihar, Chhattisgarh; at a few places over Gujarat state, Madhya Maharashtra and at isolated places over Konkan-Goa; above normal (1.6°C to 3.0°C) at many places over Marathwada, Coastal Karnataka and Odisha; at a few places over Kerala-Mahe, Nagaland-Manipur-Mizoram-Tripura and at isolated places over Tamil Nadu Puducherry-Karaikal, Telangana. They were markedly below normal (-5.1°C or less) at a few places over Arunachal Pradesh, Assam-Meghalaya; appreciably below normal (-3.1°C to -5.0°C) at a few places over Sub-Himalayan West Bengal & Sikkim; below normal (-1.6°C to -3.0°C) at a few places over Gangetic West Bengal, Coastal Andhra Pradesh-Yanam and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 44.1°C was reported at Akola (Vidarbha) over the country.

- Minimum Temperature Departures (as on 05-04-2022): Minimum temperatures are markedly above normal (5.1°C or more) at a few places over Himachal Pradesh; appreciably above normal (3.1°C to 5.0°C) at many places over Nagaland, Manipur, Mizoram & Tripura, Sub-Himalayan West Bengal-Sikkim, Bihar, Chhattisgarh and Marathawada; at a few places over West Rajasthan, East Uttar Pradesh, Gujarat State and Madhya Maharashtra and at isolated places over Gangetic West Benga and Konkan & Goa; above normal (1.6°C to 3.0°C) at many places over Jammu-Kashmir-Ladakh-Gilgit-BaltistanMuzaffarabad, Uttarakhand, Punjab, Vidarbha and North Interior Karnataka; at a few places over Haryana, Chandigarh & Delhi, Kerala & Mahe and Andaman & Nicobar Islands and at isolated places over Madhya Pradesh and Coastal Andhra Pradesh-Yanam. They are below normal (-1.6°C to -3.0°C) at isolated places over and Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country. Today, the lowest minimum temperature of 12.5°C is reported at Jhansi (West Uttar Pradesh) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 05 April (Day 1): Heat wave conditions in most places with severe heat wave conditions in isolated pockets very likely over West Rajasthan; Heat wave to severe heat wave conditions in some pockets over Uttar Pradesh and East Rajasthan; in isolated pockets over south Haryana-Delhi and Heat wave conditions in some parts over Madhya Pradesh and in isolated pockets over Jammu Division, Himachal Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, north Madhya Maharashtra and Gujarat State. Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph) at isolated places very likely over Assam-Meghalaya and with lightning at isolated places over Arunachal Pradesh,

Nagaland-Manipur, Sub-Himalayan West Bengal-Sikkim, Andaman-Nicobar Islands, Chhattisgarh, Madhya Maharashtra, Konkan-Goa, Vidarbha, Karnataka, Tamilnadu-Puducherry-Karaikal, Lakshadweep and Kerala-Mahe. Heavy to very heavy rainfall at isolated places very likely over Meghalaya; Heavy rainfall at isolated places over Sub-Himalayan West Bengal-Sikkim, Assam and Arunachal Pradesh. Squally weather (wind speed reaching 40-50 kmph gusting to 60 kmph) very likely over South Andaman Sea & adjoining Southeast Bay of Bengal. Fishermen are advised not to venture into this area.

- 06 April (Day 2): Heat wave conditions in many places with severe Heat wave conditions in isolated pockets very likely over West Rajasthan; Heat wave to severe heat wave conditions in some parts over Uttar Pradesh and East Rajasthan; in isolated pockets over south Haryana-Delhi and Heat wave conditions in some pockets over East Madhya Pradesh and in isolated pockets over Jammu Division, Himachal Pradesh, West Madhya Pradesh, Vidarbha, Chhattisgarh, north Madhya Maharashtra, Gujarat State. Bihar and Jharkhand. Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph) at isolated places very likely over Assam-Meghalaya and with lightning at isolated places over Arunachal Pradesh, Nagaland-Manipur, Sub-Himalayan West Bengal-Sikkim, Andaman-Nicobar Islands, Chhattisgarh, Madhya Maharashtra, Konkan-Goa, Vidarbha, Karnataka, Tamilnadu-Puducherry-Karaikal and Kerala-Mahe. Heavy rainfall at isolated places very likely over Assam-Meghalaya, Arunachal Pradesh and Sub-Himalayan West Bengal-Sikkim. Squally weather (wind speed reaching 40-50 kmph gusting to 60 kmph) very likely over South Andaman Sea & adjoining Southeast Bay of Bengal. Fishermen are advised not to venture into this area.
- 07 April (Day 3): Heat wave conditions in many places with severe Heat wave conditions in isolated pockets very likely over West Rajasthan; Heat wave to severe heat wave conditions in some parts over West Uttar Pradesh and East Rajasthan; in isolated pockets over south Haryana-Delhi and Heat wave conditions in some pockets over East Uttar Pradesh and in isolated pockets over Jammu Division, Himachal Pradesh, Madhya Pradesh and Vidarbha. Thunderstorm accompanied with lightning at isolated places very likely over Sub-Himalayan West Bengal-Sikkim, Arunachal Pradesh, Nagaland-Manipur and Kerala-Mahe. Heavy rainfall at isolated places very likely over Sub-Himalayan West Bengal-Sikkim. Squally weather (wind speed reaching 40-50 kmph gusting to 65 kmph) very likely over central parts of South Bay of Bengal. Fishermen are advised not to venture into this area.
- 08 April (Day 4): Heat wave conditions in many places with severe Heat wave conditions in isolated pockets likely over West Rajasthan; Heat wave to severe

heat wave conditions in some parts over West Uttar Pradesh and East Rajasthan; in isolated pockets over south Haryana-Delhi and Heat wave conditions in some pockets over East Uttar Pradesh and in isolated pockets over Jammu Division, Himachal Pradesh and Madhya Pradesh. Thunderstorm accompanied with lightning at isolated places likely over Sub-Himalayan West Bengal-Sikkim and Kerala-Mahe. Heavy rainfall at isolated places likely over Sub-Himalayan West Bengal-Sikkim. Squally weather (wind speed reaching 40-50 kmph gusting to 60 kmph) likely over Southwest Bay of Bengal. Fishermen are advised not to venture into this area.

- 09 April (Day 5): Heat wave conditions in many places with severe Heat wave conditions in isolated pockets likely over West Rajasthan; Heat wave to severe heat wave conditions in some parts over West Uttar Pradesh and East Rajasthan; in isolated pockets over south Haryana-Delhi and Heat wave conditions in some pockets over East Uttar Pradesh and in isolated pockets over Jammu Division, Himachal Pradesh and Madhya Pradesh. Thunderstorm accompanied with lightning at isolated places likely over Kerala-Mahe. Squally weather (wind speed reaching 40-50 kmph gusting to 60 kmph) likely over Southwest Bay of Bengal and along & off Sri Lanka coast. Fishermen are advised not to venture into this area.
- The weather outlook for seven days i.e., 05 Apr to 13 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)

Maharashtra-Vidarbha

Weather condition:

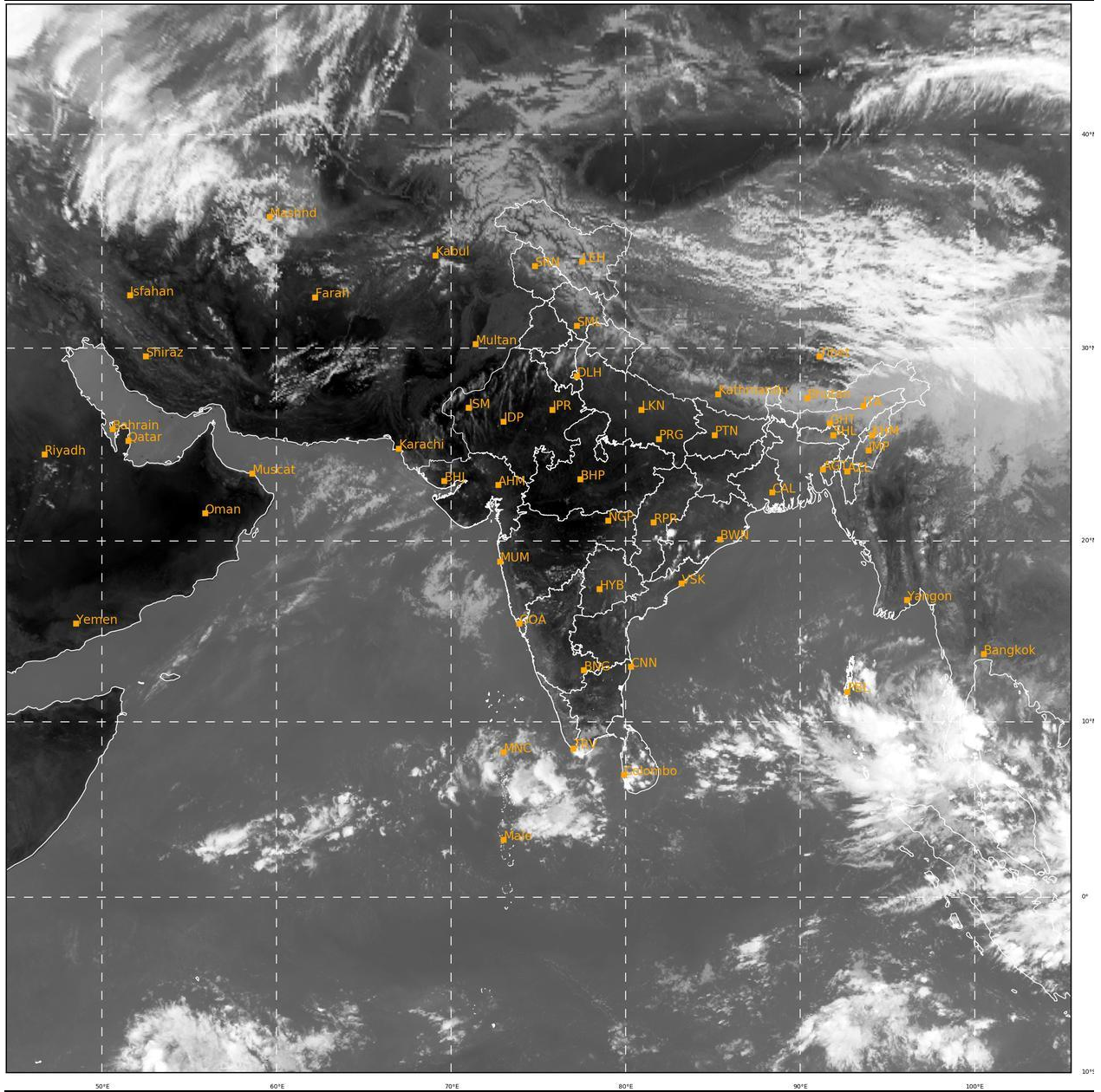
Weekly average means (13 MW) at AICRPAM Akola centre: T max 41.1°C (normal 38.7°C), T min 21.5°C (normal 20.1°C). RH I 44 % (normal 39 %), RH II 11% (normal 16 %). Evaporation rate 11.3 mm (normal 10.6 mm), Wind speed 2.6 km/hr (normal 6.5 km/hr) and BSH 8.5 hrs (normal 9.1 hrs). Maximum temperature across the week was 2.5°C above normal with a deviation of +1.7 to +3.2°C from normal. Minimum temperature across the week 1.4°C below normal with a deviation of -1.3 to +5.4°C from normal.

Contingency measure:

- Block level forecast (Akola) indicates mainly dry weather during 01 April to 05 April with warning of heat wave conditions during 01 April to 04 April. To

reduce the impact of heat wave, maintain adequate moisture in the soil profile in summer crops, vegetables and orchards by applying irrigation during early morning or evening hours. Increase the frequency of irrigation at critical growth stages. Spraying of antitranspirant (Kaolin 5 %) may be undertaken to minimize water loss in orchards. Kaolin spray reduces leaf temperature through rising leaf reflectance which decreases transpiration rate. Take the necessary precautions to help reduce the incidence of fires on farmland during hot summer months. Dry grass in orchards be removed to ground level and also remove dry grass in the nearby vicinity to avoid accidental fire incidence during hot summer months.

- In view of forecasted heat wave condition at isolated places during next five days, caution farm labourers/workers to avoid direct sunlight and cover head part while doing farm operations. Avoid high- energy activities or outdoor works, during midday heat, if possible. Drink sufficient water to stay hydrated during heat wave condition.
- Ensure timely harvest of matured wheat crop and ensure safe storage of harvested/threshed produce. In very late sown wheat crop being at grain development stage undertake irrigation for adequate soil moisture condition and reduce the impact of heat wave. In summer sown crops with continuance of dry/hot weather and forecast of heat wave warning next five days, undertake irrigation during early morning or evening hours for adequate soil moisture condition and reduce the impact of heat wave.
- For control of sap sucking pests of jassids, thrips and white fly in summer sunflower and groundnut, undertake spray of Imidacloprid 17.8 % EC @ 2.0 ml.per 10 liters of water.
- With rise in maximum temperature, increasing evaporative demand and forecast of heat wave warning next four days, make provision of shade/thatches (made of cotton/pigeonpea stalks or green net) to individual young/new fruit plantation for protection from hot summer weather.
- During hot summer weather 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. Provide proper ventilation in the poultry sheds. Use wet gunny bags as curtains on poultry sheds, to protect poultry birds to reduce heat wave impact.



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IMD, DELHI

Figure: 1. Latest available satellite picture as on 05 Apr 2022 at 1356 Hrs (IST). (Source: IMD).

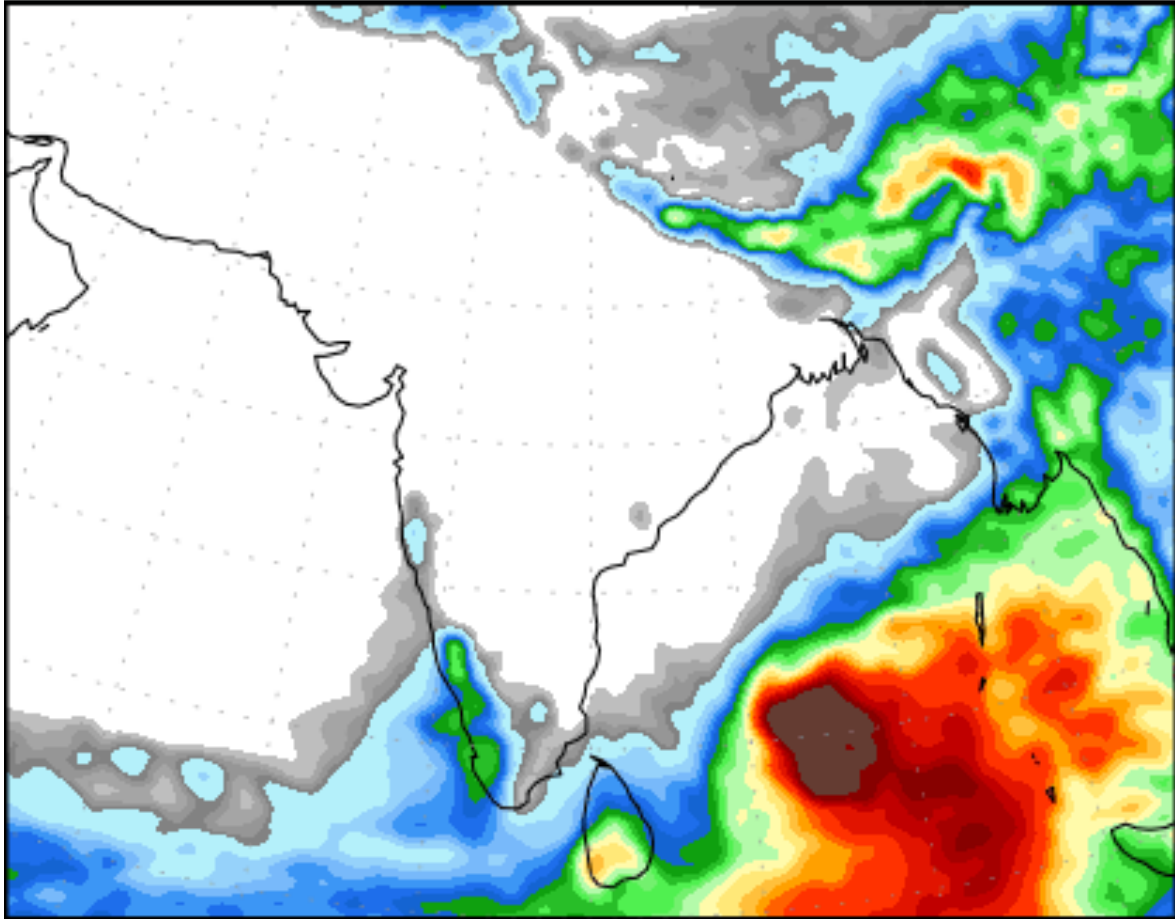


Figure:2. Precipitation forecast for 05 Apr to 13 Apr 2022 (Source: NOAA NCEP).

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