

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

Daily Crop Weather Information as on 04 April 2022

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Heat Wave conditions Forecast:
- Heat Wave conditions in many parts with severe heat wave conditions in isolated pockets very likely over Rajasthan and Heat Wave to Severe heat wave conditions in isolated pockets over West Uttar Pradesh during next 5 days.
- Heat Wave conditions in some parts with severe heat wave conditions in isolated pockets very likely over Punjab and south Haryana-Delhi during next 2-days and heat wave conditions in isolated pockets over these areas during subsequent 3 days.
- Heat Wave conditions in some parts over Madhya Pradesh & East Uttar Pradesh during next 5 days; over Jammu division, Himachal Pradesh during 04th-07th and over west Vidarbha, Jharkhand & Gujarat state on 04th & 05th April.
- Rainfall Forecast & Warnings:
- Under the influence of strong southwesterly winds from Bay of Bengal to northeastern States at lower tropospheric levels; fairly widespread to widespread rainfall very likely over Arunachal Pradesh, Assam-Meghalaya during next 5 days and isolated to scattered rainfall over Nagaland, Manipur, Mizoram & Tripura during next 2 days and reduction thereafter.
- Isolated very heavy rainfall very likely over Assam, Arunachal Pradesh & Sub-Himalayan West Bengal-Sikkim and isolated extremely heavy rainfall over Meghalaya on 04th April, 2022. Isolated heavy rainfall also likely over Arunachal Pradesh on 05th & over Assam-Meghalaya on 05th, 07th & 08th April and over Sub-Himalayan West Bengal-Sikkim during 05th-07th April.
- Isolated thunderstorm/lightning activity also very likely over Assam-Meghalaya, Arunachal Pradesh, Nagaland, Manipur and Sub-Himalayan West Bengal-Sikkim during next 04th-06th April, 2022. Under the influence of trough over south Peninsular India,
- 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 and Telangana during 04th- 06th April.

- Isolated thunderstorm/lightning activity also very likely over Tamilnadu-Puducherry-Karaikal & Kerala & Mahe during next 5 days; over South Interior Karnataka on 04th & 05th and over Telangana, Coastal & North Interior Karnataka on 05th April, 2022. 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:
- Isolated heavy rainfall likely over Andaman & Nicobar Islands on 06th April, 2022.
- Squally Weather (wind speed reaching 40-50 kmph gusting to 60 kmph) likely over Southeast Bay of Bengal & adjoining south Andaman on 06th April; (wind speed reaching 45-55 kmph gusting to 65 kmph) over Southeast Bay of Bengal on 07th April; (wind speed reaching 50-60 kmph gusting to 70 kmph) over central parts of south Bay of Bengal along & off Sri Lanka coast 08th April. Fishermen are advised not to venture into this area.
- 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, Assam-Meghalaya and Arunachal Pradesh; at a few places over Nagaland-Manipur-Mizoram-Tripura, Kerala-Mahe and Lakshadweep; at isolated places over Andaman-Nicobar Islands, Gangetic West Bengal, Odisha, Bihar, Konkan-Goa, Madhya Maharashtra, Coastal Andhra Pradesh, Telangana, Rayalaseema, Karnataka and Tamilnadu-Puducherry-Karaikal.
- Extremely Heavy rainfall observed at isolated places over Meghalaya; Heavy to Very Heavy Rainfall at isolated places over Assam and Arunachal Pradesh and Heavy Rainfall at isolated places over Sikkim.
- Thunderstorm observed (from 0830 of yesterday to 0830 hours IST of today): at isolated places over Himalayan West Bengal & Sikkim, Coastal Karnataka, Kerala-Mahe, Tamilnadu, Puducherry & Kariakal, Chhattisgarh, Assam & Meghalaya and Odisha.
- Yesterday, Heat Wave to Severe Heat Wave conditions observed in most pockets of West Rajasthan and in some pockets of Himachal Pradesh and Haryana and

Heat Wave conditions in some pockets of East Rajasthan, Delhi and East Madhya Pradesh and in isolated pockets of Jammu Division and West Madhya Pradesh.

- Maximum Temperature Departures (as on 03-04-2022): Maximum temperatures were markedly above normal (5.1°C or more) at most places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Haryana-Chandigarh Delhi and West Rajasthan; at many places over Uttarakhand and Uttar Pradesh; at isolated places over East Rajasthan and East Madhya Pradesh; appreciably above normal (3.1°C to 5.0°C) at most places over Punjab; at many places over Saurashtra Kutch, Jharkhand and West Madhya Pradesh; at a few places over East Uttar Pradesh, Gujarat region and Vidarbha; above normal (1.6°C to 3.0°C) at most places over Marathwada; at many places over Chhattisgarh; at a few places over Madhya Maharashtra and Telangana; at isolated places over Odisha and Kerala-Mahe. They were appreciably below normal (-3.1°C to -5.0°C) at many places over Sub-Himalayan West Bengal & Sikkim; below normal (-1.6°C to -3.0°C) at a few places over Assam & Meghalaya and Bihar; at isolated places over Gangetic West Bengal, Coastal Andhra Pradesh-Yanam, Tamilnadu Puducherry-Karaikal and Andaman & Nicobar Islands and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 44.0°C was reported at Akola (Vidarbha) over the country.
- Minimum Temperature Departures (as on 04-04-2022): Minimum temperatures are markedly above normal (5.1°C or more) at isolated places over Haryana, Chandigarh & Delhi and West Rajasthan; appreciably above normal (3.1°C to 5.0°C) at most places over Nagaland, Manipur, Mizoram & Tripura; at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan Muzaffarabad and Gangetic West Bengal; at a few places over West Uttar Pradesh, Vidarbha, Sub-Himalayan West Bengal Sikkim; at isolated places over East Rajasthan; above normal (1.6°C to 3.0°C) at most places over Punjab and Marathwada; at many places over Saurashtra-Kutch, Madhya Maharashtra, Chhattisgarh and Odisha; at a few places over Himachal Pradesh, Gujarat region, Madhya Pradesh, Bihar, Assam-Meghalaya and Andaman & Nicobar Islands; at isolated places over East Uttar Pradesh, Telangana, Coastal Andhra Pradesh-Yanam and Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country. Today, the lowest minimum temperature of 15.4°C is reported at Meerut (West Uttar Pradesh) over the plains of the country

Weather Warning during the next 5 days (IMD)

- 04 April (Day 1): Heat wave conditions in most places with severe heat wave conditions in isolated pockets very likely over West Rajasthan and heat wave conditions in some places with severe heat wave conditions in isolated pockets

over south Haryana-Delhi; Heat Wave to Severe Heat wave conditions in some places over East Rajasthan; in isolated pockets over Punjab and West Uttar Pradesh and Heat wave conditions in some pockets over Madhya Pradesh and in isolated pockets over Jammu Division, Himachal Pradesh, East Uttar Pradesh, west Vidarbha, Jharkhand, Saurashtra-Kutch and north Gujarat Region. Thunderstorm accompanied with lightning at isolated places very likely over Assam-Meghalaya, Arunachal Pradesh, Nagaland-Manipur, Sub-Himalayan West Bengal-Sikkim, Chhattisgarh, Andaman-Nicobar Islands, Konkan-Goa, Madhya Maharashtra, South Interior Karnataka, Tamilnadu-Puducherry-Karaikal, Lakshadweep and Kerala-Mahe. Heavy to very Heavy rainfall with extremely heavy rainfall at isolated places very likely over Meghalaya and heavy to very heavy rainfall at isolated places over Assam, Arunachal Pradesh and Sub-Himalayan West Bengal-Sikkim.

- 05 April (Day 2): Heat wave conditions in most places with severe heat wave conditions in isolated pockets very likely over West Rajasthan; Heat wave conditions in some places with severe heat wave conditions in isolated pockets over south Haryana-Delhi and Heat Wave to Severe Heat wave conditions in some places over East Rajasthan; in isolated pockets over Punjab and West Uttar Pradesh and Heat wave conditions in some parts over Madhya Pradesh and in isolated pockets over Jammu Division, Himachal Pradesh, East Uttar Pradesh, west Vidarbha, Jharkhand, Saurashtra-Kutch and north Gujarat Region. Thunderstorm accompanied with lightning at isolated places very likely over Assam-Meghalaya, Arunachal Pradesh, Nagaland-Manipur, Sub-Himalayan West Bengal-Sikkim, Andaman-Nicobar Islands, Madhya Maharashtra, Konkan-Goa, Vidarbha, Telangana, Karnataka, Tamilnadu-Puducherry-Karaikal 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.
- 06 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 East Rajasthan; in isolated pockets over West Uttar Pradesh and Heat wave conditions in some pockets over East Uttar Pradesh and south Haryana-Delhi and in isolated pockets over Jammu Division, Himachal Pradesh, Punjab and Madhya Pradesh. Thunderstorm accompanied with lightning at isolated places very likely over Assam-Meghalaya, Arunachal Pradesh, Nagaland-Manipur, Konkan-Goa, Madhya Maharashtra, Sub-Himalayan West Bengal-Sikkim, Tamilnadu-Puducherry-Karaikal and Kerala-Mahe. Heavy rainfall at isolated places very likely over Sub-Himalayan

West Bengal-Sikkim, Meghalaya and Andaman-Nicobar Islands. Squally Weather (wind speed reaching 40-50 kmph gusting to 60 kmph) likely over Southeast Bay of Bengal & adjoining South Andaman Sea. Fishermen are advised not to venture into this area.

- 07 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 East Rajasthan; in isolated pockets over West Uttar Pradesh and Heat wave conditions in some pockets over East Uttar Pradesh and in isolated pockets over Jammu Division, Himachal Pradesh, south Haryana-Delhi, Punjab and Madhya Pradesh. Thunderstorm accompanied with lightning at isolated places likely over Sub-Himalayan West Bengal-Sikkim, Tamilnadu-Puducherry-Karaikal and Kerala-Mahe. Heavy rainfall at isolated places likely over Sub-Himalayan West Bengal-Sikkim and Assam-Meghalaya. Squally Weather (wind speed reaching 45-55 kmph gusting to 65 kmph) likely over Southeast Bay of Bengal. Fishermen are advised not to venture into this area.
- 08 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 East Rajasthan; in isolated pockets over West Uttar Pradesh and Heat wave conditions in some pockets over East Uttar Pradesh and in isolated pockets over south Haryana-Delhi, Punjab and Madhya Pradesh. Thunderstorm accompanied with lightning at isolated places likely over Tamilnadu-Puducherry-Karaikal and Kerala-Mahe. Heavy rainfall at isolated places likely over Assam-Meghalaya. Squally Weather (wind speed reaching 45-55 kmph gusting to 65 kmph) likely over Central parts of South Bay of Bengal & along and off Sri Lanka coast. Fishermen are advised not to venture into this area.
- The weather outlook for seven days i.e., 04 Apr to 12 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)

Gujarat

Weather condition:

The actual maximum temperature was 1.2 °C and actual minimum temperature was 1.7 °C higher as compared to their normals. Total BSS was 63.8 hrs. with an average of 9.1 hrs. The daily average evaporation and wind speed was 6.6 mm and 3.0 km/hr

respectively. The daily average RH during morning and afternoon was 84.0 % and 28.7 % respectively.

Contingency measure:

- Summer greengram : Keep crop weed free till 45 days of sowing. 2 to 3 interculturing and hand weeding is advised or apply Imazethapyr 10 % SL 75 g a.i./ha. at 15 to 20 days of sowing.
- Wheat: Harvesting : Harvest mature crop and keep in the field for sun drying.
- Pearl millet : Carry out inter-culturing and weeding at 15-20 days after sowing. If necessary, second inter-culturing and weeding should be done 30-35 DAS.
- Tobacco : Harvest the mature leaves by curing or priming method and keep it for sun dry. Collect well dried leaves in morning hours and store in safe place.
- Gram: Maturity : Harvest mature crop in morning hours and keep in the field for sun drying. Protect crop from bird damage.
- Chilli : for control of thrips, spray neem seed oil 30 to 50 ml in 10 litter of water. In case of heavy attack, spray of spinosad 3 ml per 10 litter.
- Tomato: There is possibility of incidence of spotted wilt virus, spray Carbendenzim (50 % WP) 5 g in 10 liter water at 10 to 12 days interval.
- Castor : Capsule Maturity : Carefully harvest the matured capsule from the castor plants.
- Vegetables : Flowering/ Reproductive : For the control of White fly/ Aphid spray neem seed extract 500 ml or neem seed oil 50 ml in 10 liter water at 15 days interval (4 sprays) or Acetamiprid 20 % SP@ 5.0 gm/10 liter water at 15 days interval.
- Cattle: Keep animal shed hygienic and clean to avoid flies and mosquitoes. Keep indoor at night time. Give warm drinking water thrice in a day. Provide 6-8 kg good quality dry roughage with 15-20 kg green fodder to the animals. FMD vaccination should be done.

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

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

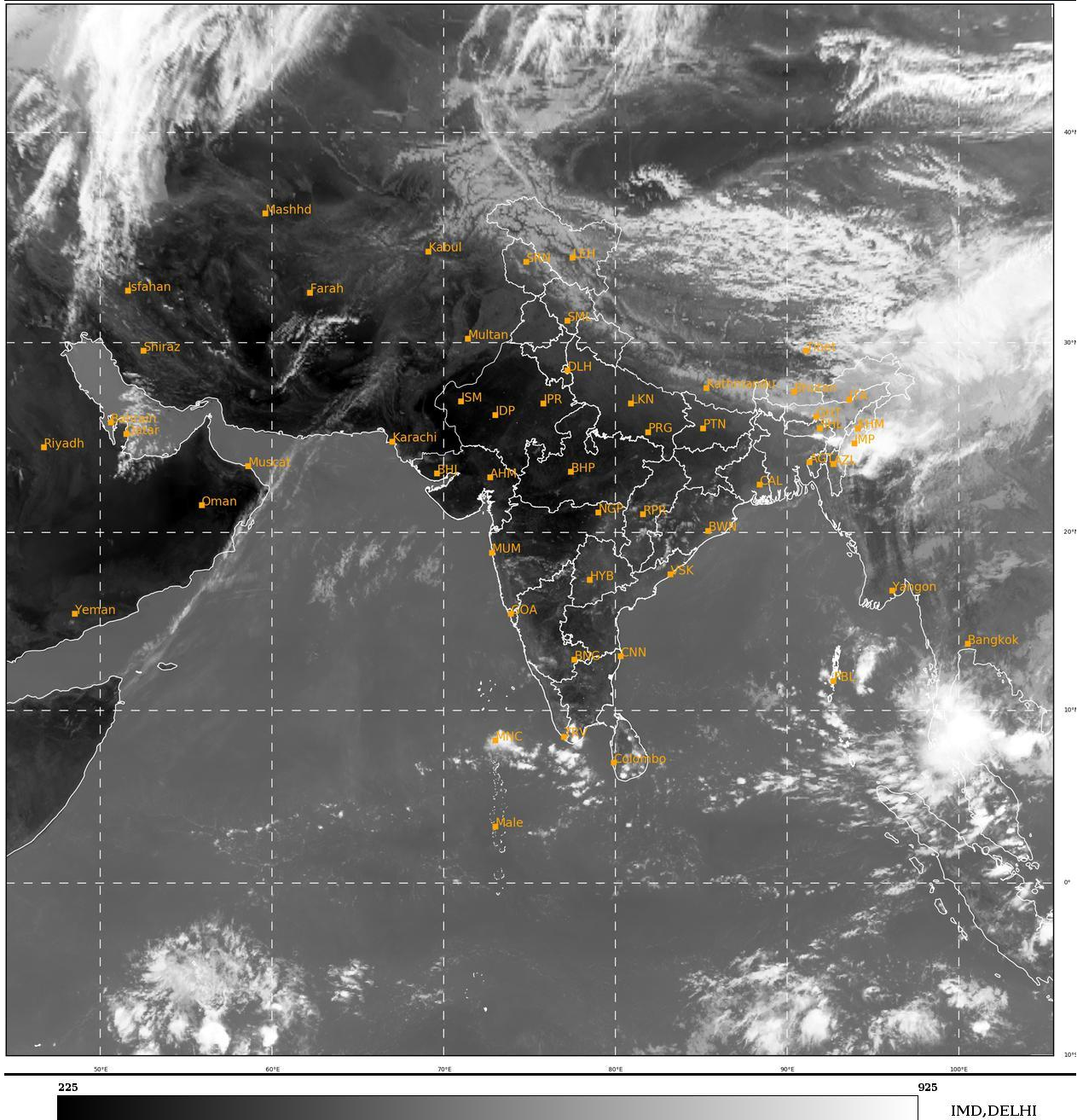


Figure: 1. Latest available satellite picture as on 04 Apr 2022 at 1356 Hrs (IST). (Source: IMD).

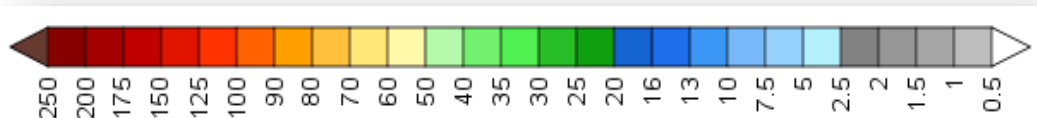
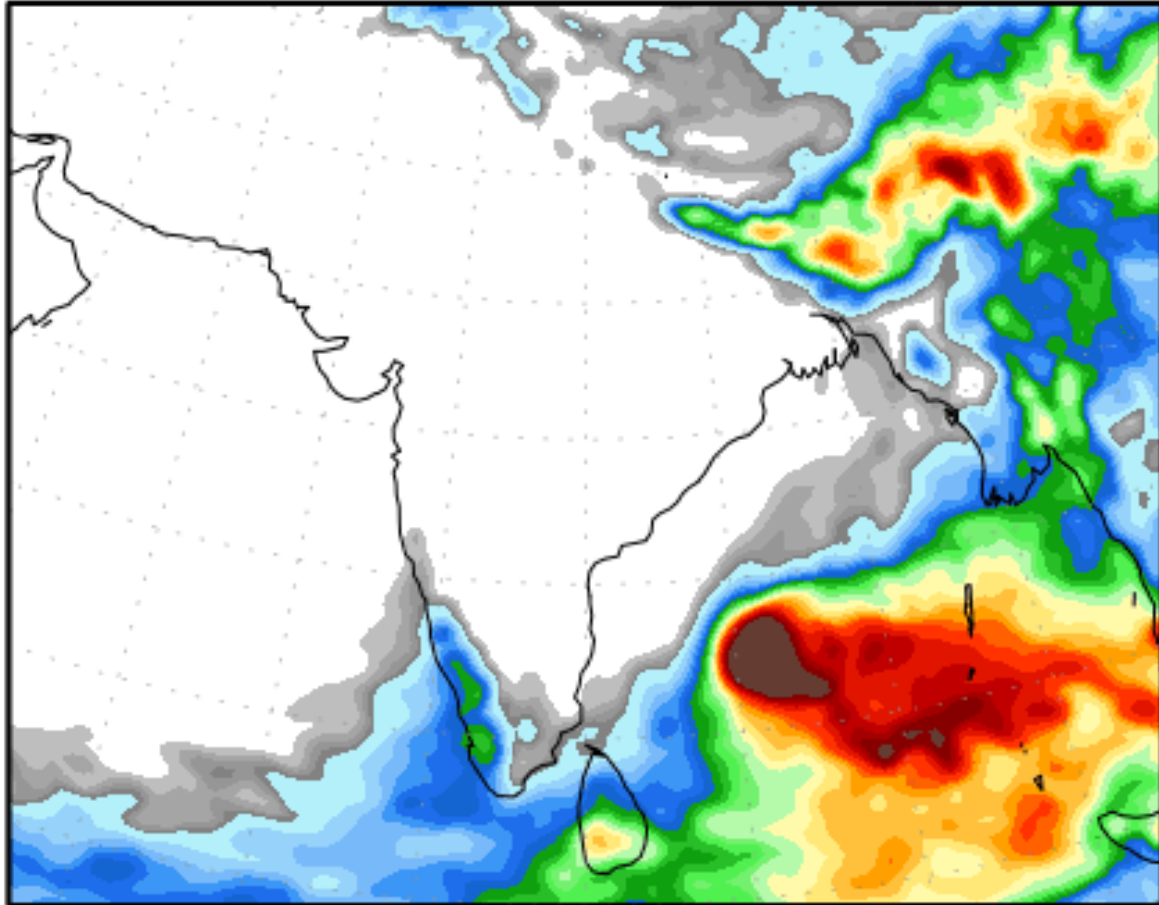


Figure:2. Precipitation forecast for 04 Apr to 12 Apr 2022 (Source: NOAA NCEP).

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