

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 27 April 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A fresh feeble Western Disturbance likely to affect Western Himalayan Region from today causing isolated rainfall/snowfall with thunderstorm & gusty winds over upper reaches of Kashmir, Ladakh, Gilgit, Baltistan, Muzaffarabad, Himachal Pradesh and Uttarakhand during 28th-30th April and isolated light rainfall over adjoining plains of north Punjab, north Haryana and north Uttar Pradesh on 29th & 30th April. Isolated Thunderstorm/Duststorm (speed reaching 40-50 kmph) also likely over west and north Rajasthan on 29th & 30th April, 2021.
- A North-South trough runs from eastern parts of Bihar to south Tamil Nadu across Jharkhand, interior Odisha, Vidarbha, Telangana and Rayalaseema in lower levels. Under its influence, scattered to fairly widespread thunderstorms accompanied by gusty winds is very likely over Kerala & Mahe and isolated to scattered rainfall/thunderstorm over remaining parts of Peninsular India, West and East India during next 3-4 days. Isolated heavy rainfall also likely over north Kerala on 28th & 29th April, 2021.
- Due to wind convergence supported by moisture feed from Bay of Bengal, isolated to scattered rainfall with isolated thunderstorm/gusty winds very likely over Northeast India during next 24 hours whose intensity and distribution is likely to increase over the region during subsequent 2 days. Isolated heavy rainfall also likely over Assam & Meghalaya on 30th April, 2021.
- Heat wave conditions very likely in isolated pockets over Gujarat state, Odisha and Gangetic West Bengal on 27th April, 2021.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rain/Thundershowers observed (from 0830 to 1730 hrs IST of yesterday): at many places over Andaman & Nicobar Islands and at isolated places over Sub-Himalayan West Bengal & Sikkim, Madhya Maharashtra, Telangana and Tamilnadu, Puducherry & Karaikal.

- Thunderstorm/Hailstorm observed (from 1730 hrs IST of yesterday to 0530 hrs IST of today): at isolated places over Coastal & North Interior Karnataka, Karaikal, Madhya Maharashtra, Chhattisgarh and Kerala & Mahe.
- Heat Wave conditions are observed in isolated pockets over Gangetic West Bengal, coastal Odisha and Saurashtra & Kutch.
- Maximum Temperature Departures as on 26-04-2021: Maximum temperatures were markedly above normal (5.1°C or more) at most places over Assam & Meghalaya; at many places over Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura and at isolated places over Sub-Himalayan West Bengal & Sikkim; appreciably above normal (3.1°C to 5.0°C) at a few places over Gangetic West Bengal, East Bihar, coastal Odisha, Saurashtra & Kutch and Konkan & Goa; above normal (1.6°C to 3.0°C) at many places over Uttarakhand and Gujarat Region; at a few places over Himachal Pradesh and at isolated places over Jammu, Kashmir, Ladakh, GilgitBaltistan & Muzaffarabad, Punjab, West Rajasthan, West Madhya Pradesh, rest Gangetic West Bengal and South Interior Karnataka. They were below normal (-1.6°C to -3.0°C) at many places over south Coastal Andhra Pradesh; at a few places over North Interior Karnataka and Tamilnadu, Puducherry & Karaikal and at isolated places over East Madhya Pradesh and near normal over rest parts of the country. The highest maximum temperature of 43.3°C was reported at Rajkot (Saurashtra).
- Minimum Temperature Departures as on 26-04-2021: Minimum temperatures were above normal (1.6°C to 3.0°C) at most places over Sub-Himalayan West Bengal & Sikkim; at many places over Gangetic West Bengal, Jharkhand and Saurashtra & Kutch; at a few places over Arunachal Pradesh and Assam & Meghalaya; at isolated places over Odisha and Tamilnadu, Puducherry & Karaikal. They were markedly below normal (-5.1°C or less) at most places over Haryana, Chandigarh & Delhi; at many places over East Rajasthan; at isolated places over Uttarakhand, Uttar Pradesh, Madhya Pradesh and Bihar; appreciably below normal (-3.1°C to -5.0°C) at a few places over Himachal Pradesh; at isolated places over Punjab, West Rajasthan and Telangana; below normal (-1.6°C to -3.0°C) at a few places over Vidarbha; at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Gujarat Region and Coastal Andhra Pradesh & Yanam and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 12.4°C was reported at Sikar (East Rajasthan) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 27 April (Day 1): Thunderstorm with lightning & gusty wind (speed reaching 30-40 kmph) very likely at isolated places over Assam & Meghalaya, Madhya Maharashtra, Marathawada, Telangana and Kerala & Mahe and with lightning at isolated places over Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Odisha, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Gujarat state, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Karnataka and Tamilnadu, Puducherry & Karaikal. Heat wave conditions very likely in isolated pockets over Gujarat state, Odisha and Gangetic West Bengal.
- 28 April (Day 2): Thunderstorm with lightning & gusty wind (speed reaching 40-50 kmph) very likely at isolated places over Kerala & Mahe; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over West Bengal & Sikkim, Odisha, Assam & Meghalaya, Madhya Maharashtra, Marathawada, Coastal Andhra Pradesh & Yanam and Telangana and with lightning at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh, Uttarakhand, Chhattisgarh, Vidarbha, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Saurashtra & Kutch, Konkan & Goa, Rayalaseema, Karnataka and Tamilnadu, Puducherry & Karaikal. Heavy rainfall very likely at isolated places over Kerala & Mahe.
- 29 April (Day 3): Thunderstorm with lightning & gusty wind (speed reaching 40-50 kmph) likely at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over Uttarakhand, Chhattisgarh, Vidarbha, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Madhya Maharashtra, Marathawada, Telangana and Kerala & Mahe and with lightning at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh, Arunachal Pradesh, Gujarat state, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Coastal & South Interior Karnataka and Tamilnadu, Puducherry & Karaikal. Thunderstorm/Duststorm (speed reaching 40-50 kmph) likely at isolated places over Rajasthan. Heavy rainfall likely at isolated places over Kerala & Mahe.
- 30 April (Day 4): Thunderstorm with lightning & gusty wind (speed reaching 40-50 kmph) likely at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over Uttarakhand, Bihar, Jharkhand, Gangetic West Bengal, Madhya Maharashtra, Marathawada, Coastal Andhra Pradesh & Yanam, Telangana and Kerala & Mahe and with lightning at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Odisha, Arunachal Pradesh,

Gujarat state, Konkan & Goa, Coastal & South Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Lakshadweep. Thunderstorm/Duststorm (speed reaching 40-50 kmph) likely at isolated places over Rajasthan. Heavy rainfall likely at isolated places over Assam & Meghalaya.

- 01 May (Day 5): Thunderstorm with lightning & gusty wind (speed reaching 40-50 kmph) likely at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over Uttarakhand, Bihar, Jharkhand, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam, Telangana and Kerala & Mahe and with lightning at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh, Vidarbha, Sub-Himalayan West Bengal & Sikkim, Odisha, Arunachal Pradesh and Coastal & South Interior Karnataka. Thunderstorm/Duststorm (speed reaching 40-50 kmph) likely at isolated places over Rajasthan.
- The weather outlook for seven days i.e., 27 Apr to 05 May 2021 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 (16 MW) at AICRPAM Akola centre: T max 40.1°C (normal 41.5°C), T min 23.9°C (normal 24.0°C). RH I 32 % (normal 38 %), RH II 13% (normal 16 %). Evaporation rate 12.7 mm (normal 13.4 mm), Wind speed 2.0 km/hr (normal 8.4 km/hr) and BSH 8.2 hrs (normal 9.5 hrs). Maximum temperature across the week was 1.3°C below normal with a deviation of -4.6 to +0.1°C from normal. Minimum temperature across the week 0.1°C below normal with a deviation of -4.3 to +3.6°C from normal.

Contingency measure:

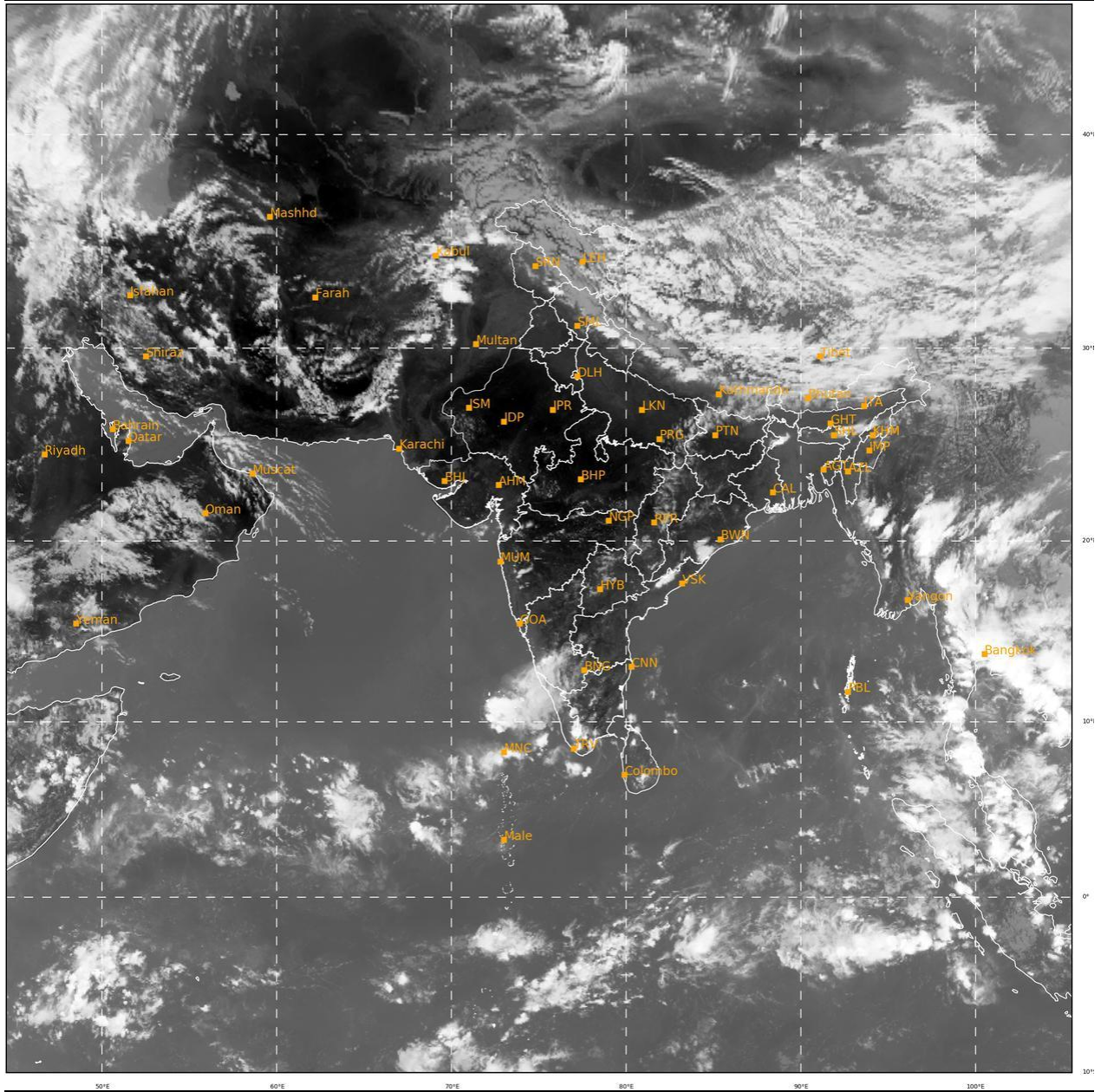
- The forecast (IMD) indicates prevalence of mainly dry weather remain during 22-25 April and light to moderate rain likely to occur at isolated places especially in Chandrapur and Gadchiroli districts over Vidarbha on 26 April. No significant change in maximum temperature over Vidarbha during next 2 days thereafter rise in maximum temperature by 2-3 degree Celsius over Vidarbha. Farmers are advised to strictly follow the health advisory set out by the health officials for self, family and farm laborers during the prevailing health anxiety situation due

to corona virus. Adequate personal safety measures as advised to be taken for everyone during farm operations and also at market place. Grazing animals should be allowed in harvested fields, so that animals will eat plants leaf, stems and infected bolls with insects larvae /pupa. Taking advantage of available soil moisture, summer deep ploughing of harvested fields to expose the hibernating insects, larvae/pupa to sun and predator birds is advisable. Avoid in-situ burning of crop residues. Use this crop residue for making compost / organic fertilizer. Under prevailing evaporative demand (10-12 mm/day) apply irrigation in summer crops at an interval of 6 to 7 days, irrigating in the early morning or evening hours. Avoid water stagnation/over irrigation.

- For control of tikka disease in groundnut, judging a clear weather, undertake spray of Chlorothalonil 75%WP @20 g 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 sunflower by using Imidacloprid 17.8 % @ 2.0 ml in 10 liters of water. 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. To protect from summer heat, make provision of shade/thatches (made of harvested cotton/pigeonpea stalks or dried grass or green net) to individual young/new plantation along with basin mulching. Plant moisture inadequacy during summer may cause bark cracking/splitting in orange orchards. So to protect against fungal or other pathogen entry smear Bordeaux paste (1:1:10) on 1 to 1.5 meter trunk height. In pomegranate to control (Tellya) disease undertake copper hydroxide 25 gm + streptomycin sulphate 5 gm OR copper hydroxide 25 gm + Bronopol 5 gm in 10 liters of water in clear sky weather condition.
- 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.
- Ensure availability of sufficient feed/forage, proper grazing time (morning/evening), provision of enough water as well as shelter during summer heat conditions for farm livestock. For livestock green feed during ensuing summer, undertake sowing of forage crops (fodder maize-African tall, fodder sorghum-Pusa chari, MP Chari, SSG 898), provided irrigation is available at later stages.

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

27-04-2021/(0830 to 0856) GMT
27-04-2021/(1400 to 1426) IST



224

934

IMD, DELHI

Figure: 1. Latest available satellite picture as on 27 April 2021 at 1426 Hrs (IST). (Source: IMD).

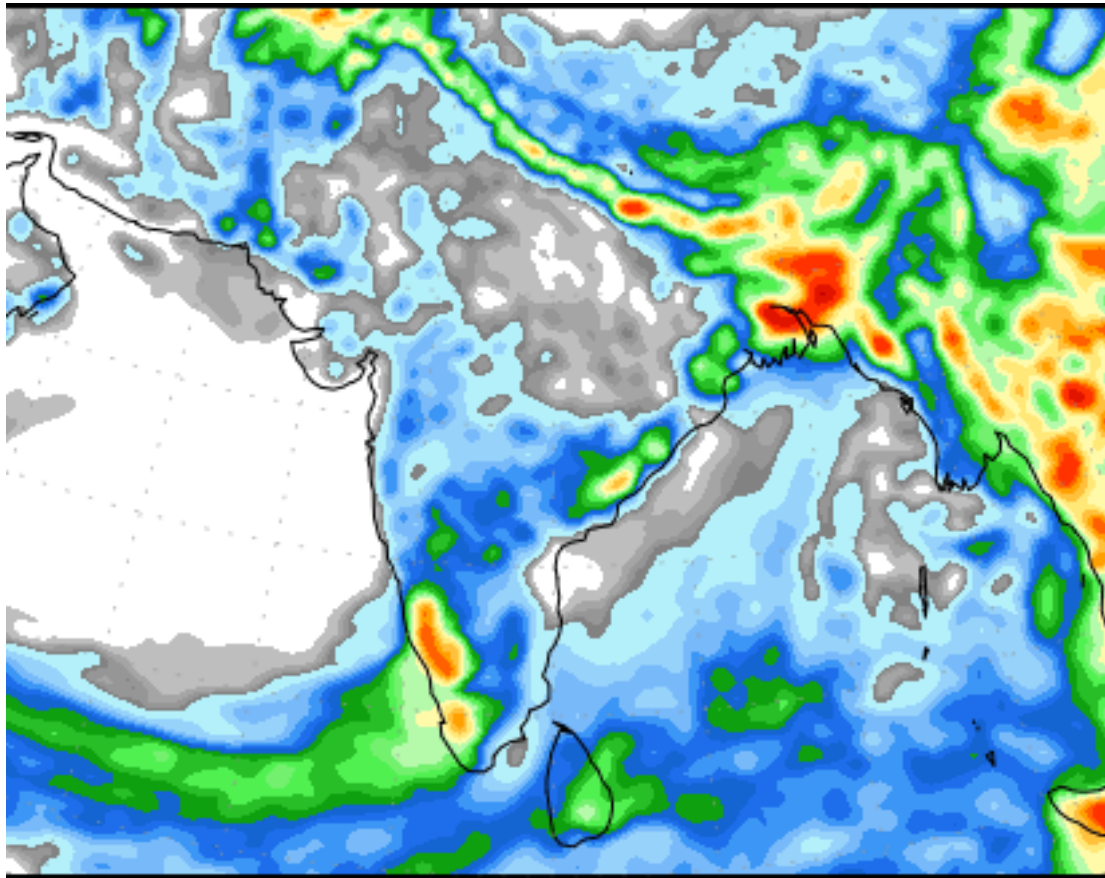


Figure:2. Precipitation forecast for 27 Apr to 05 May 2021 (Source: NOAA NCEP).

Disclaimer: The predictability of weather depends on many dynamic factors. The success of Agromet advisories provided here depends on the accuracy of the forecasts. In no event will India Meteorological Department (IMD) and Indian Council of Agricultural Research (ICAR) be liable to the user or any third party for any direct, indirect, incidental, consequential, special or exemplary damages or lost profit resulting from any use or misuse of the information on this bulletin.