

All India Coordinated Research Project on Agrometeorology

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Daily Crop Weather Information as on 23 April 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A fresh Western Disturbance as a cyclonic circulation lies over North Pakistan & neighbourhood between 3.1 km & 4.5 km above mean sea level with a trough aloft with its axis at 7.6 km above mean sea level roughly along Longitude 72°E to the north of latitude 28°N. An induced cyclonic circulation lies over northwest Rajasthan & neighbourhood in lower tropospheric levels. Under their influence; fairly widespread to widespread rainfall/snowfall with isolated thunderstorm/gusty winds very likely over Western Himalayan Region (Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh and Uttarakhand) on today, the 23rd April and isolated to scattered rainfall with isolated thunderstorm/gusty winds also very likely over adjoining plains of Northwest India during the same period. Isolated hailstorm also likely over Uttarakhand, West Uttar Pradesh and Haryana, Chandigarh & Delhi during next 24 hours. Dust raising winds very likely over Rajasthan during next 24 hours.
- A cyclonic circulation lies over Marathawada & neighbourhood and a trough runs from the above cyclonic circulation over Marathawada to south coastal Tamil Nadu across Interior Karnataka in lower tropospheric levels. Under their influence, scattered to fairly widespread rainfall/thunderstorm very likely over Kerala & Mahe and isolated to scattered rainfall/thunderstorm over remaining parts of south Peninsular India during next 4-5 days. Isolated heavy rainfall also likely over South Interior Karnataka on 23rd and Kerala & Mahe during 23rd-24th April, 2021.
- No significant heat wave conditions likely over the country during next 4-5 days
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rain/Thundershowers observed (from 0830 hours IST of yesterday to 0830 hrs IST of today): at most places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Himachal Pradesh; at many paces over Sub-Himalayan West Bengal & Sikkim, Uttarakhand and Punjab; at a few places over Arunachal

Pradesh, Andaman & Nicobar Islands, Gangetic West Bengal, Haryana, Chandigarh & Delhi, Karnataka and Kerala & Mahe and at isolated places over West Uttar Pradesh, West Rajasthan, East Madhya Pradesh, Chhattisgarh, Bihar, Jharkhand, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana and Tamil Nadu, Puducherry & Karaikal.

- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hrs IST of today): Thunderstorm at a few places over SubHimalayan West Bengal & Sikkim and Kerala & Mahe and at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, West Rajasthan, Odisha, Gangetic West Bengal, Telangana, Coastal Andhra Pradesh & Yanam, Rayalaseema, Karnataka, Telangana, Arunachal Pradesh and Assam & Meghalaya.
- Maximum Temperature Departures as on 22-04-2021: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at most places over Assam & Meghalaya; above normal (1.6°C to 3.0°C) at many places over Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa and Coastal Karnataka ; at a few places over Saurashtra & Kutch and at isolated places over Tamilnadu, Puducherry & Karaikal. They were markedly below normal (-5.1°C or less) at most places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh and Uttarakhand; at many places over Punjab and Bihar and at a few places over Gangetic West Bengal; appreciably below normal (-3.1°C to -5.0°C) at most places over Haryana, Chandigarh & Delhi and Uttar Pradesh; at many places over Jharkhand; at a few places over Odisha, West Rajasthan and Chhattisgarh and at isolated places over Madhya Pradesh, Telangana and Madhya Maharashtra and below normal (-1.6°C to -3.0°C) at isolated places over Andaman & Nicobar Islands and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 42.2°C was reported at Medak (Telangana).
- Minimum Temperature Departures as on 23-04-2021: Minimum temperatures are above normal (1.6°C to 3.0°C) at isolated places over East Rajasthan, Saurashtra & Kutch, Rayalaseema and Odisha; They are appreciably below normal (-3.0°C to -5.0°C) at most places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, East Uttar Pradesh, Bihar and Punjab; at isolated places over East Madhya Pradesh and Vidarbha; below normal (-1.6°C to -3.0°C) at most places over Uttarakhand, Coastal & South Interior Karnataka and Sub-Himalayan West Bengal & Sikkim; at a few places over Haryana, Chandigarh

& Delhi, West Uttar Pradesh and West Madhya Pradesh; at isolated places over Coastal Andhra Pradesh & Yanam, Telangana and Gangetic West Bengal and near normal over rest parts of the country. Today, the lowest minimum temperature of 14.2°C reported at Amritsar (Punjab) and Ambala (Haryana) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 23 April (Day 1): Thunderstorm with lightning, hail & gusty wind (speed reaching 40-50 kmph) very likely at isolated places over Haryana, Chandigarh & Delhi; with lightning, hail & gusty wind (speed reaching 30-40 kmph) at isolated places over Uttarakhand and West Uttar Pradesh; with lightning & gusty wind (speed reaching 40-50 kmph) at isolated places over Punjab and Kerala & Mahe; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, north Rajasthan and Telangana and with lightning at isolated places over Vidarbha, south Chhattisgarh, Odisha, Arunachal Pradesh, Coastal Andhra Pradesh & Yanam, Rayalaseema, Karnataka, Lakshadweep and Tamil Nadu, Puducherry & Karaikal. Heavy rainfall very likely at isolated places over South Interior Karnataka and Kerala & Mahe. ust raising winds (speed reaching 30-40 kmph) very likely at isolated places over Rajasthan. Strong winds (speed reaching 40-50 kmph) very likely over North Arabian Sea and along & off Gujarat coast.
- 24 April (Day 2): Thunderstorm with lightning & gusty wind (speed reaching 40-50 kmph) very likely at isolated places over Kerala & Mahe and with lightning at isolated places over Uttarakhand, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Coastal & South Interior Karnataka and Tamilnadu, Puducherry & Karaikal. Heavy rainfall very likely at isolated places over Kerala & Mahe.
- 25 April (Day 3): Thunderstorm with lightning & gusty wind (speed reaching 30-40 kmph) very likely at isolated places over Kerala & Mahe and with lightning at isolated places over Chhattisgarh, Telangana, Madhya Maharashtra, Marathawada and Tamilnadu, Puducherry & Karaikal.
- 26 April (Day 4): Thunderstorm with lightning & gusty wind (speed reaching 30-40 kmph) likely at isolated places over Kerala & Mahe and with lightning at isolated places over Chhattisgarh, Odisha, Telangana, Madhya Maharashtra, Marathawada, South Interior Karnataka and Tamilnadu, Puducherry & Karaikal.
- 27 April (Day 5): Thunderstorm with lightning & gusty wind (speed reaching 30-40 kmph) likely at isolated places over Telangana and Kerala & Mahe and with lightning at isolated places over Chhattisgarh, Gangetic West Bengal, Odisha,

Arunachal Pradesh, Madhya Maharashtra, Marathawada, Karnataka and Tamil Nadu, Puducherry & Karaikal.

- The weather outlook for seven days i.e., 23 Apr to 01 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)

Western U.P

Weather condition:

Cloudy weather first 2 days and rest days weather will be mainly dry. Maximum temperature may be expected 1-2 0C higher than its normal, while minimum temperature may be also 1-2 0C higher than its normal. North- West/ South-East winds may be expected and prevailing 4 to 14 km higher than its normal during this week as per forecast.

Contingency measure:

- Wheat: Due to western disturbance 10.8 mm rainfall occurred on 22 April so farmers are advised to harvest their crop and tying bundles immediate and threshing should be done.
- Barley: Threshing and winnowing should be completed as earlier.
- Zaid maize: Weeding should be done. Pigeon pea: Harvest mature crop and threshing should be done.
- Zaid Urd : Weeding should be done at optimum moisture by hand hoe. Weeds should be used as mulch.
- Zaid Moong : Weeding should be done after 20 days of sowing.
- Brinjal / Chilies: Pick up mature fruits in standing crop.
- Leafy Vegetable: Cutting , marketing.
- Barseem : Nil .
- MP Chari / Mucchari / Pearl-millet : Sowing of SSG-988-898, PC-23 ,SSG-59 -3 and MP chari @ 30-40 kg seeds /ha. Light irrigation applied after 20 days of sowing. Sowing should be Pearl-millet varieties such as Raj-171, L-72 and L-74 done.
- Animal : Balanced diet should be given for milch animal. Fresh water used for dinking 4 or 5 time and bathing should be taken up at morning. The routine immunization of animals becomes necessary since disease decrease milk production capacity among milch animals if need concerned near Veterinary hospital.

SAT : INSAT-3D IMG
 IMG_TIR1 10.8 um
 L1C Mercator

23-04-2021/(0800 to 0826) GMT
 23-04-2021/(1330 to 1356) IST

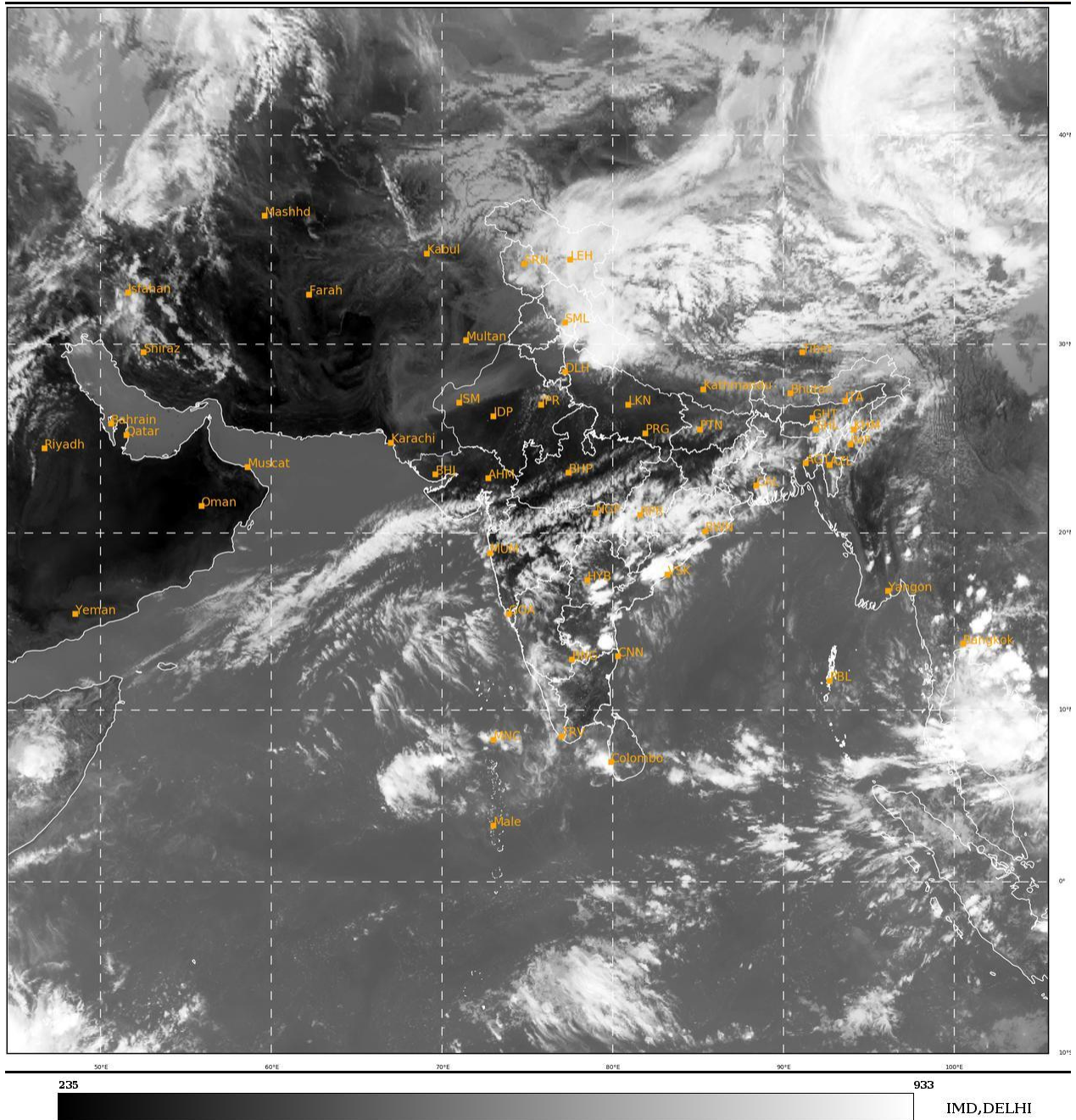


Figure: 1. Latest available satellite picture as on 23 April 2021 at 1356 Hrs (IST). (Source: IMD).

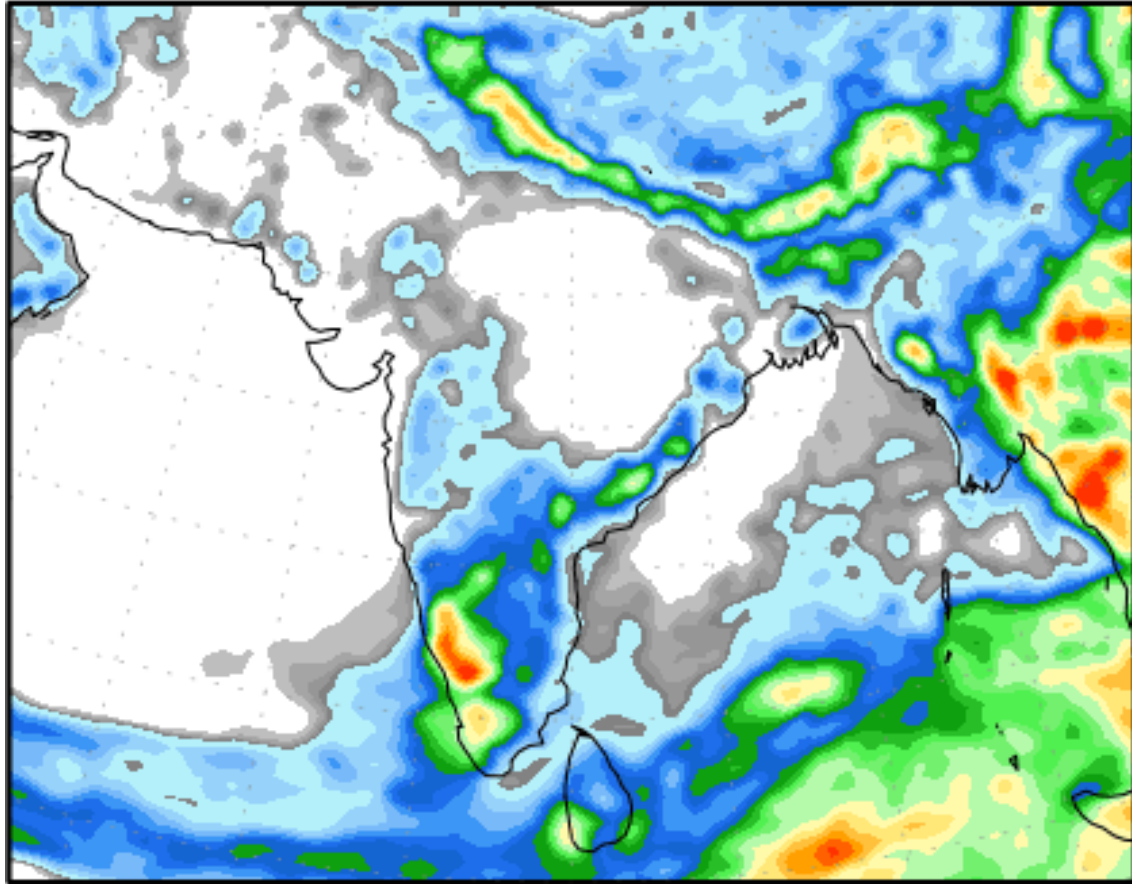


Figure:2. Precipitation forecast for 23 Apr to 01 May 2021 (Source: NOAA NCEP).

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