

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 05 April 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A Western Disturbance as a trough between 3.1 km & 7.6 km above mean sea level runs roughly along longitude 62°E to the north of latitude 32°N and a fresh Western Disturbance very likely to affect Western Himalayan Region from 06th April onwards. Under the influence of above systems:
 - i) Scattered to widespread rainfall/snowfall very likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad and Himachal Pradesh during 05th-09th April and over Uttarakhand during 06th-09th April. Isolated rainfall over Punjab, Haryana and west Uttar Pradesh during 05th-07th April.
 - ii) Isolated thunderstorm, lightning/gusty winds over Western Himalayan region during 05th-07th April and over adjoining plains during 06th-07th April.
 - iii) Isolated hailstorm also likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad on 6th; over Himachal Pradesh on 05th & 06th April and over Uttarakhand on 06th & 07th April.
 - iv) isolated heavy rainfall/snowfall over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad and Himachal Pradesh on 6th April; over Uttarakhand on 07th April.
 - v) Duststorm/Thunderstorm and gusty winds (speed reaching 30-40 kmph) likely at isolated places over West Rajasthan during 05th-07th April.
- Heat wave conditions very likely in isolated pockets over southwest Rajasthan during next 24 hours, over East Rajasthan during next 2 days, over Vidarbha during next 3 days and over Madhya Pradesh during 07th-09th April.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rain/Thundershowers observed (from 0830 hours IST to 1730 hours IST of yesterday): at a few places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Andaman & Nicobar Islands and Arunachal Pradesh and at isolated places over Assam & Meghalaya, West Bengal & Sikkim, Odisha, Coastal

Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

- Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today): at isolated places over Assam & Meghalaya, West Bengal & Sikkim, Odisha and Tamilnadu, Puducherry & Karaikal.
- Heat Wave Conditions observed in a few pockets over southwest Rajasthan.
- Maximum Temperature Departures as on 04-04-2021: Maximum temperatures were markedly above normal (5.1°C or more) at many places over West Rajasthan; at a few places over Arunachal Pradesh; appreciably above normal (3.1°C to 5.0°C) at many places over Himachal Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, Punjab and East Rajasthan;; at a few places over Assam & Meghalaya, Vidarbha and Sub-Himalayan West Bengal & Sikkim; at isolated places over Gangetic West Bengal and Tamilnadu, Puducherry & Karaikal, ; above normal (1.6°C to 3.0°C) at many places over Madhya Pradesh, Jharkhand, and Vidarbha; at a few places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Gujarat State, Uttar Pradesh, Bihar, Odisha, Marathwada Coastal & South Interior Karnataka and Coastal Andhra Pradesh & Yanam; at isolated places over Telangana and Rayalaseema and Konkan & Goa and North Interior Karnataka. They were below normal (-1.6°C to -3.0°C) at a few places over Andaman & Nicobar Islands; at isolated places over Madhya Maharashtra and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 43.3°C was reported at Barmer (West Rajasthan) over the country.
- Minimum Temperature Departures as on 04-04-2021: Minimum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over West Rajasthan, Saurashtra & Kutch and Tamil Nadu, Puducherry & Karaikal; above normal (1.6°C to 3.0°C) at many places over Gangetic West Bengal, Odisha, Gujarat Region and Coastal Andhra Pradesh & Yanam; at a few places over Sub-Himalayan West Bengal & Sikkim, Marathwada and Rayalaseema. They were appreciably below normal (-3.1°C to -5.0°C) at many places over Haryana, Chandigarh & Delhi; at a few places over East Uttar Pradesh and East Madhya Pradesh; at isolated places over West Uttar Pradesh and Jharkhand; below normal (-1.6°C to -3.0°C) at many places over Himachal Pradesh, Punjab, Bihar and Nagaland, Manipur, Mizoram & Tripura; at a few places over Uttarakhand, East Rajasthan and West Madhya Pradesh; at isolated places over Vidharbha and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 7.0°C was reported at Pantnagar (Uttrakhand) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 05 April (Day 1): Thunderstorm with lightning, hail & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Himachal Pradesh; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttarakhand and Kerala & Mahe and with lightning at isolated places over Punjab, Andaman & Nicobar Islands, Arunachal Pradesh, Coastal Andhra Pradesh & Yanam, Telangana, Tamil Nadu, Puducherry & Karaikal. Thunderstorm/Duststorm with gusty winds (speed reaching 30-40 kmph) very likely at isolated places over West Rajasthan. Heat Wave Conditions very likely in isolated pockets over south Rajasthan and Vidarbha.
- 06 April (Day 2): Thunderstorm with lightning, hail & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh and Uttarakhand; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Punjab, Haryana, Chandigarh & Delhi and Kerala & Mahe. Thunderstorm/Duststorm with gusty winds (speed reaching 30-40 kmph) very likely at isolated places over West Rajasthan. Heat Wave Conditions very likely in isolated pockets over northeast Rajasthan and Vidarbha. Heavy rainfall/snowfall very likely in isolated pockets over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Himachal Pradesh.
- 07 April (Day 3): Thunderstorm with lightning, hail & gusty winds (speed reaching 40-50 kmph) likely at isolated places over Uttarakhand; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh and Kerala & Mahe. Thunderstorm/Duststorm with gusty winds (speed reaching 30-40 kmph) very likely at isolated places over West Rajasthan. Heat Wave Conditions likely in isolated pockets over Madhya Pradesh and Vidarbha. Heavy rainfall/snowfall likely in isolated pockets over Uttarakhand.
- 08 April (Day 4): Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) likely at isolated places over Jharkhand and Kerala & Mahe with lightning over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Lakshadweep. Heat Wave Conditions likely in isolated pockets over Madhya Pradesh.
- 09 April (Day 5): Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) likely at isolated places over Jharkhand and Kerala & Mahe with

lightning over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Lakshadweep. Heat Wave Conditions likely in isolated pockets over Madhya Pradesh.

- The weather outlook for seven days i.e., 04 Apr to 13 April 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)

Gujarat

Weather condition:

The actual maximum temperature and the actual minimum temperature both were 0.6 °C higher as compare to its normals. Total BSS was 67.1 hrs. with an average of 9.6 hrs. The daily average evaporation and wind speed was 7.7 mm and 3.5 km/hr respectively. The daily average RH during morning and afternoon was 74.4 % and 26.6 % respectively.

Contingency measure:

- Wheat: Maturity stage: Harvest crop at maturity. Protect crop from damage of birds.
- Pigeon pea: Pod development : Heliothis and Pod fly : Apply Quinalphos 25 EC 20 ml in 10 liter water on pods to control pod fly.
- Tobacco : Harvest mature leaves. 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.
- Castor : Capsule Maturity : Carefully harvest the matured capsule from the castor plants.
- Brinjal: Growth: Fruit and Shoot borer: If infestation found install 40 pheromone trap. Change lure at 21 day interval. And spray Diclorovos 76 EC 7 ml or Deltamethrin 1% + Triazophos 36% EC 10 ml in 10 lit water. Uproot and burn little leaf diseases infected brinjal plant and spray any systemic insecticide.
- Banana : Apply irrigation at an interval of 4 to 5 days as per requirement of crop in summer season. Spraying with zinc sulphate 0.5% or ferrous sulphate 0.2% in banana crop at flowering stage for improving quality and yield.
- 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

05-04-2021/(0530 to 0556) GMT
05-04-2021/(1100 to 1126) IST

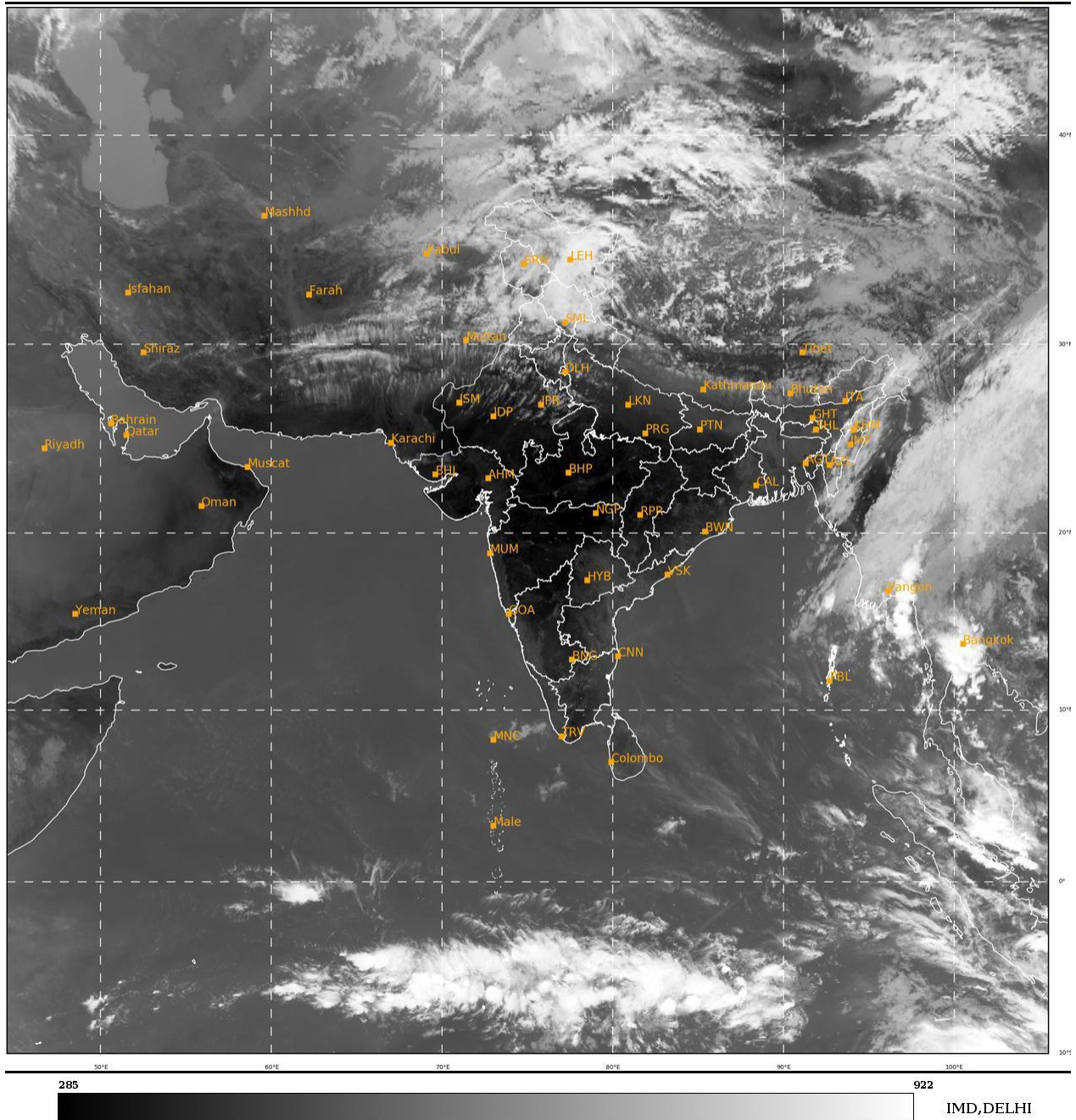


Figure: 1. Latest available satellite picture as on 05 April 2021 at 1126 Hrs (IST). (Source: IMD).

Precipitation Forecasts

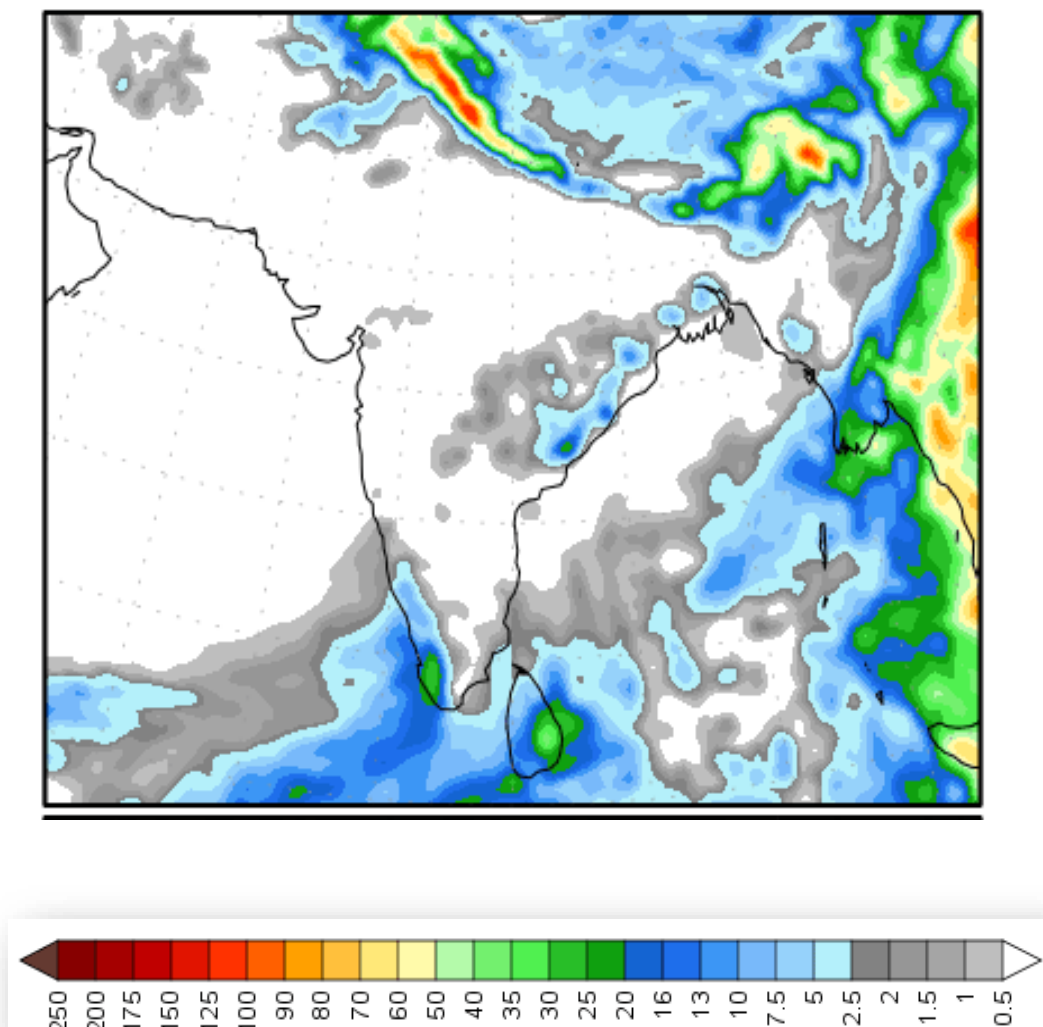


Figure:2. Precipitation forecast for 05 Apr to 13 Apr 2021 (Source: NOAA NCEP).

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