

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 15 April 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Under the influence of trough/wind discontinuity at lower tropospheric levels:
 - i) Scattered to fairly widespread rainfall with thunderstorm, lightning & gusty winds (30-40 kmph) very likely over southwest Peninsular India during next 3 days. Isolated heavy rainfall also likely over Kerala & Mahe during next 3 days; over Tamilnadu, Puducherry & Karaikal during next 3 days; over Coastal & South Interior Karnataka during next 24hours .
 - ii) Isolated rainfall with thunderstorm, lightning & gusty winds (30-40 kmph) very likely over Madhya Maharashtra, Marathwada and Konkan & Goa during next 24 hours and over Vidarbha and Chhattisgarh during 15th-18th April.
- A Western Disturbance as a trough in mid & upper tropospheric westerlies with its axis at 5.8 km above mean sea level runs roughly along longitude 70°E to the north of latitude 25°N. Under its influence:
 - i) Scattered to fairly widespread rainfall with thunderstorm, lightning & gusty winds (30-40 kmph) over Western Himalayan Region during 15th-17th April. Isolated hailstorm likely over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad on 15th & 16th; over Himachal Pradesh on 16th and over Uttarakhand on 16th & 17th April. Isolated heavy rainfall also very likely over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Himachal Pradesh on 16th & 17th April.
 - ii) Isolated light rainfall with thunderstorm, lightning & gusty winds (30-40 kmph) over adjoining plains during 15th-17th April. Isolated hailstorm also likely over Punjab and Haryana, Chandigarh & Delhi on 16th April. Thunderstorm/Duststorm at isolated places likely over West Rajasthan on 15th & 16th April and over East Rajasthan on 16th April, 2021.
- Due to thunderstorm activity over most parts of the country, no significant change in maximum temperatures likely over most parts of the country during next 3-4 days except most parts of Northwest India where maximum temperature is likely to fall by 2-4°C after 24 hours.
- 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, Lakshadweep, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Andaman & Nicobar islands and at isolated places over Himachal Pradesh, Sub-Himalayan west Bengal & Sikkim, Odisha, West Madhya Pradesh, Vidharbha, Marathawada, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Rayalseema and South Interior Karnataka.
- Thunderstorm observed (from 0830 hours IST of yesterday - 0530 hours IST today): at Many places over Madhya Maharashtra and Kerala & Mahe and at isolated places over Assam & Meghalaya, Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Punjab, Sub-Himalayan west Bengal & Sikkim, Odisha, Coastal Andhra Pradesh & Yanam, Vidharbha, Rayalaseema, East Madhya Pradesh, Marathawada, Karnataka and Tamilnadu, Puducherry & Karaikal.
- Heat Wave conditions observed in isolated pockets over Saurashtra & Kutch and Haryana.
- Maximum Temperature Departures as on 14-04-2021: Maximum temperatures were markedly above normal (5.1°C or more) at a few places over Uttarakhand; appreciably above normal (3.1°C to 5.0°C) at most places over Punjab, Himachal Pradesh, Haryana, Chandigarh & Delhi and Gangetic west Bengal; at a few places over East Uttar Pradesh; at isolated places over West Rajasthan, Saurashtra & Kutch, Konkan & Goa and Assam & Meghalaya; above normal (1.6°C to 3.0°C) at most places over West Uttar Pradesh and Jharkhand; at many places over Bihar, Nagaland, Manipur, Mizoram & Tripura and East Madhya Pradesh; at a few places over Arunachal Pradesh and Coastal Karnataka; at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Sub-Himalayan west Bengal & Sikkim, East Rajasthan, Gujarat Region and Coastal Andhra Pradesh & Yanam. They were markedly below normal (-5.1°C or less) at isolated places over Telangana; appreciably below normal (-3.1°C to -5.0°C) at most places over Madhya Maharashtra, North Interior Karnataka and Chhattisgarh; at a few places over Andaman & Nicobar islands; at isolated places over West Madhya Pradesh; below normal (-1.6°C to -3.0°C) at many places over Marathawada, South Interior Karnataka and Tamilnadu, Puducherry & Karaikal; at a few places over Odisha; at isolated places over at isolated places over Vidharbha, Kerala & Mahe, Rayalseema and Lakshadweep and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 42.8°C was reported at Nowgong (East Uttar Pradesh).

- Minimum Temperature Departures as on 14-04-2021: Minimum temperatures were markedly above normal (5.1°C or more) at a few places over Gujarat Region; appreciably above normal (3.1°C to 5.0°C) at many places over Punjab; at a few places over Sub-Himalayan west Bengal & Sikkim; at isolated places over West Madhya Pradesh; above normal (1.6°C to 3.0°C) at most places over West Rajasthan; at a few places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan and Muzaffarabad, Himachal Pradesh, East Rajasthan, Saurashtra & Kutch, Konkan & Goa, Bihar, Nagaland, Manipur, Mizoram & Tripura and Andaman & Nicobar Islands and at isolated places over East Uttar Pradesh and Gangetic West Bengal. They were appreciably below normal (- 3.1°C to -5.0°C) at many places over Telangana; at isolated places over Madhya Maharashtra and below normal (-1.6°C to -3.0°C) at a few places over East Madhya Pradesh and at isolated places over Odisha and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 17.0°C was reported at Medak (Telangana) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 15 April (Day 1): Thunderstorm with lightning, hail & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places over Assam & Meghalaya; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Himachal Pradesh, Punjab, Rajasthan, Chhattisgarh, Jharkhand, Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura, Telangana, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe and with lightning at isolated places over East Madhya Pradesh, Vidarbha, Sub-Himalayan West Bengal & Sikkim, Madhya Maharashtra, Marathwada, Odisha, Coastal Andhra Pradesh & Yanam, Rayalaseema, Arunachal Pradesh, Andaman & Nicobar Islands, Karnataka and Lakshadweep. Heavy rainfall very likely at isolated places over Coastal & South Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. Duststorm/Thunderstorm with gusty winds (speed reaching 30-40 kmph) very likely at isolated places over West Rajasthan.
- 16 April (Day 2): Thunderstorm with lightning, hail & gusty wind (speed reaching 40-50 kmph) very likely at isolated places over Sub-Himalayan West Bengal & Sikkim; with lightning, hail & gusty wind (speed reaching 30-40 kmph) at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi and Punjab; with lightning & gusty wind (speed reaching 40-50 kmph) at isolated places over

Rajasthan, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over West Uttar Pradesh, Chhattisgarh, Jharkhand, Gangetic West Bengal and Kerala & Mahe and with lightning at isolated places over Vidarbha, Bihar, Andaman & Nicobar Islands, Arunachal Pradesh, Coastal & South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Lakshadweep. Heavy rainfall very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal. Duststorm/Thunderstorm with gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Rajasthan.

- 17 April (Day 3): Thunderstorm with lightning, hail & gusty wind (speed reaching 30-40 kmph) likely at isolated places over Uttarakhand; with lightning & gusty wind (speed reaching 40-50 kmph) at isolated places over Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura and Assam & Meghalaya; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Haryana, Chandigarh & Delhi, Punjab, East Uttar Pradesh, Jharkhand, Gangetic West Bengal and Kerala & Mahe and with lightning at isolated places over Bihar, Andaman & Nicobar Islands, Arunachal Pradesh, Tamilnadu, Puducherry & Karaikal and Lakshadweep. Heavy rainfall likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh and Kerala & Mahe. Duststorm/Thunderstorm with gusty winds (speed reaching 30-40 kmph) likely at isolated places over East Rajasthan.
- 18 April (Day 4): Thunderstorm with lightning & gusty wind (speed reaching 40-50 kmph) likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over Gangetic West Bengal and Jharkhand and with lightning at isolated places over Arunachal Pradesh, Andaman & Nicobar Islands, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe.
- 19 April (Day 5): Thunderstorm with lightning & gusty wind (speed reaching 40-50 kmph) likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over Gangetic West Bengal and Jharkhand and with lightning at isolated places over Arunachal Pradesh, Andaman & Nicobar Islands, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe.

- The weather outlook for seven days i.e., 15 Apr to 23 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 was 0.1 °C and the actual minimum temperature was 2.1 °C higher as compare to their normals. Total BSS was 67.3 hrs. with an average of 9.6 hrs. The daily average evaporation and wind speed was 7.4 mm and 3.8 km/hr respectively. The daily average RH during morning and afternoon was 82.7 % and 28.7 % respectively.

Contingency measure:

- Summer pearl millet : Apply remained half amount of nitrogen (60 kg) as top dressing after weeding and thinning at 30 days after sowing. Irrigate the crop according to soil type and climatic condition.
- 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.
- 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.
- Chilli : For control of thrips, spray Profenofos 20 ml or neem seed oil 50 ml in 10 liter water. In case of severe attack, spray Spinosad or Spinetoram 3 ml per 10 liter of water.
- 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.

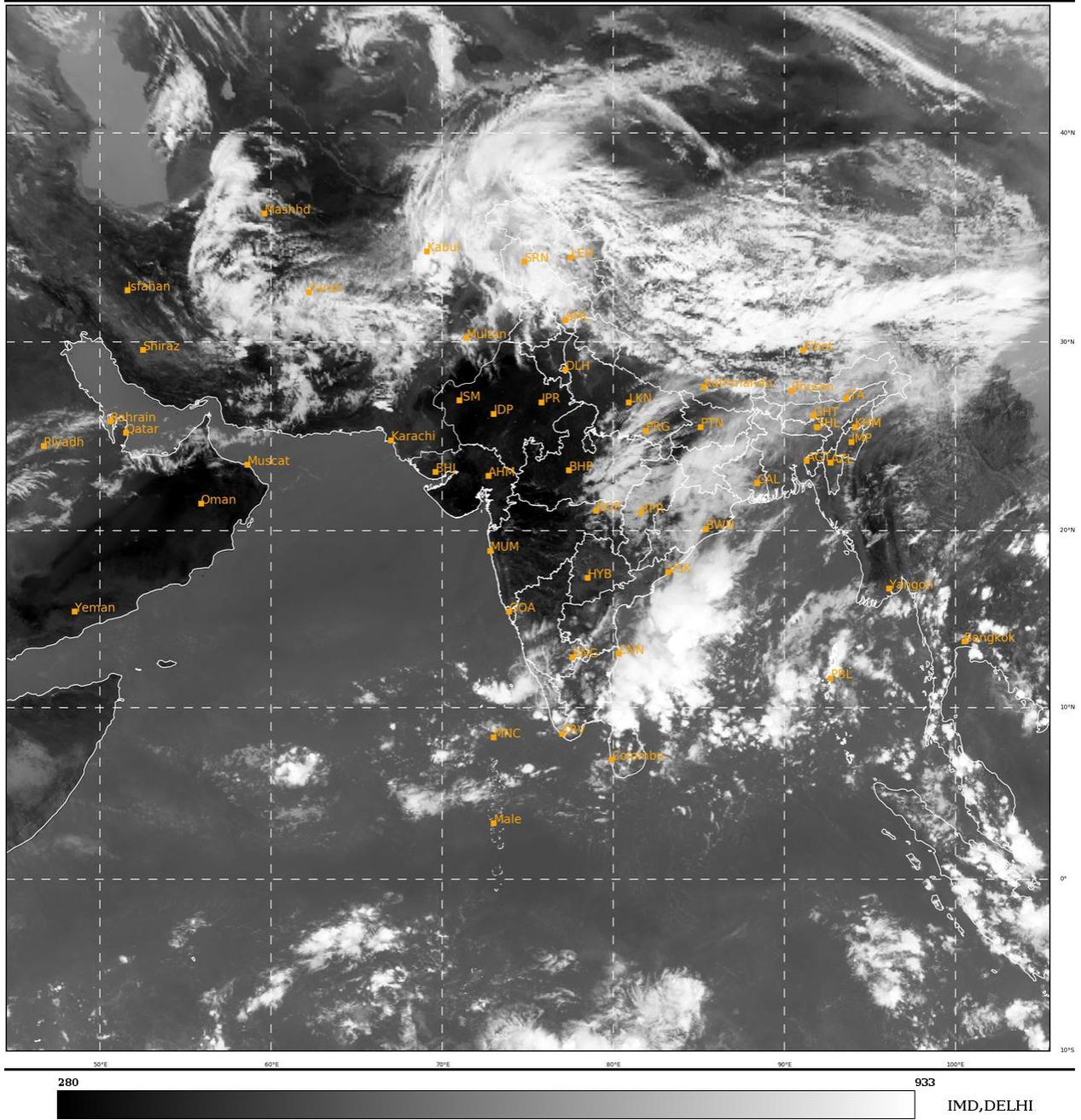


Figure: 1. Latest available satellite picture as on 15 April 2021 at 1326 Hrs (IST). (Source: IMD).

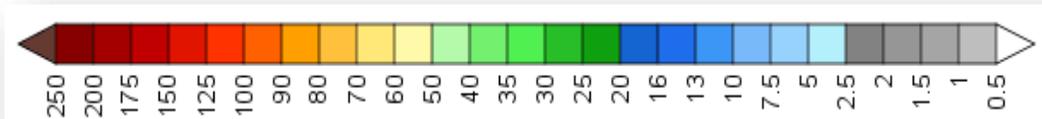
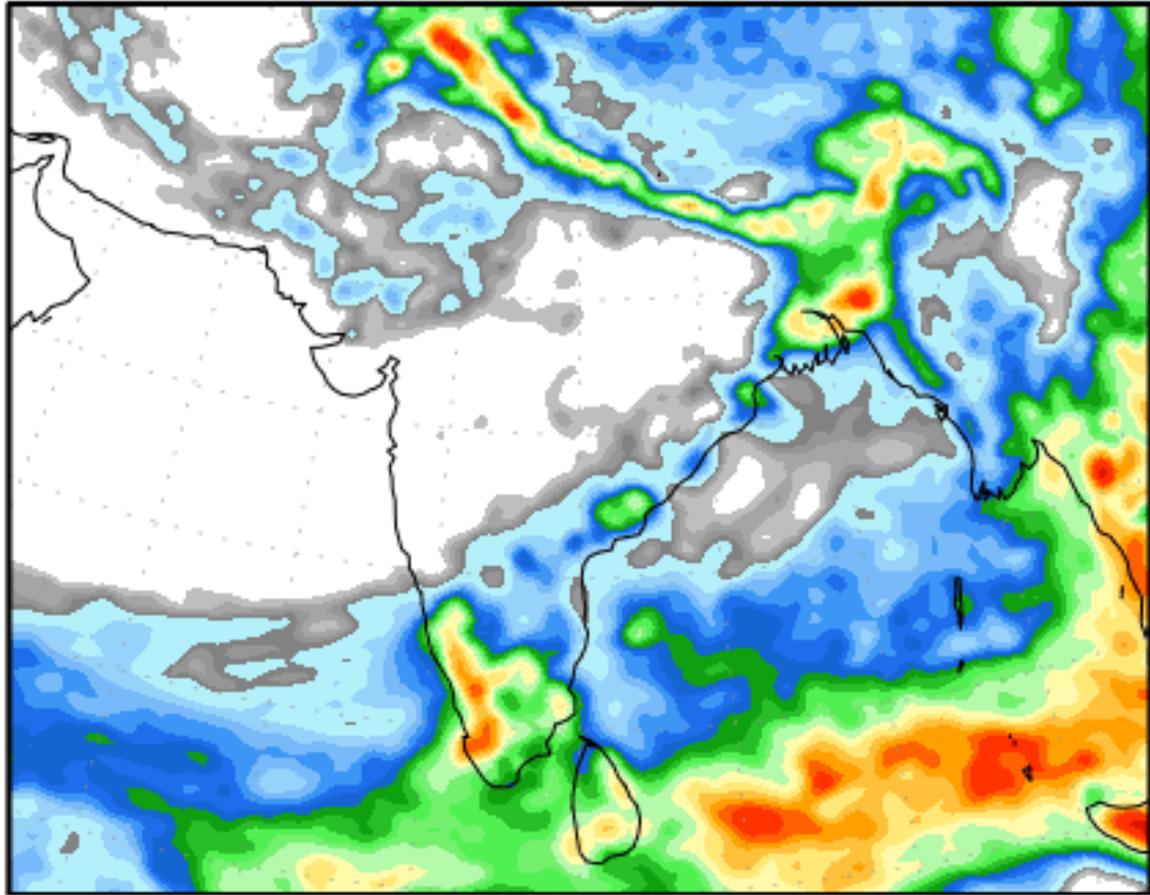


Figure:2. Precipitation forecast for 15 to 23 Apr 2021 (Source: NOAA NCEP).

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