

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 21 April 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Western Disturbance as a cyclonic circulation lies over Jammu & Kashmir and neighbourhood between 2.1 km & 3.6 km above mean sea level. Another 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 20°N. The induced cyclonic circulation lies over Punjab & neighbourhood in lower tropospheric levels. Under their influence:
 - (i) scattered to widespread rainfall/snowfall/thunderstorm very likely over Western Himalayan Region during 21st-23rd April and isolated to scattered rainfall/thunderstorm very likely over adjoining plains of Northwest India during the same period.
 - (ii) Isolated heavy rainfall very likely over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh and Uttarakhand on today, the 21st April.
 - (iii) Isolated hailstorm very likely over Uttarakhand on today, the 21st April, 2021.
- A North-South trough runs from North Interior Karnataka to south Tamil Nadu and a cyclonic circulation lies over south Tamil Nadu & neighbourhood in lower tropospheric levels. Under its influence, isolated to scattered rainfall/thunderstorm very likely over South Peninsular India during next 4-5 days.
- 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; many places over Arunachal Pradesh, Uttarakhand, Punjab and Lakshadweep; at a few places over Haryana, Chandigarh & Delhi, West Rajasthan, Chhattisgarh, Assam & Meghalaya and Andaman & Nicobar Islands and at isolated places over Uttar Pradesh, East

Rajasthan, Sub-Himalayan West Bengal & Sikkim, Odisha, Bihar, Madhya Pradesh, Vidarbha, Saurashtra & Kutch, Telangana, Tamilnadu, Puducherry & Karaikal, Karnataka and Kerala & Mahe.

- Heavy rainfall recorded at isolated places over Odisha.
- Thunderstorm observed (from 0530-0830 hrs IST of today): at isolated places over Himachal Pradesh, Uttarakhand, East Uttar Pradesh and Haryana & Chandigarh. Hailstorm observed at isolated places over Telangana.
- Maximum Temperature Departures as on 20-04-2021: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Bihar and Jharkhand; at isolated places over Gangetic West Bengal; above normal (1.6°C to 3.0°C) at most places over Nagaland, Manipur, Mizoram & Tripura; at many places over East Uttar Pradesh and Konkan & Goa; at a few places over Odisha; at isolated places over Madhya Pradesh and Coastal Andhra Pradesh & Yanam. They were markedly below normal (-5.1°C or less) at isolated places over Punjab, West Rajasthan and Arunachal Pradesh; appreciably below normal (-3.1°C to -5.0°C) at most places over Himachal Pradesh; at many places over Kerala & Mahe and Andaman & Nicobar Islands; at a few places over Haryana, Chandigarh & Delhi; below normal (-1.6°C to -3.0°C) at many places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; at isolated places over Uttarakhand, Gujarat Region, Madhya Maharashtra, Telangana and Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 42.8°C was reported at Khajuraho (East Madhya Pradesh) and Chandrapur (Vidarbha).
- Minimum Temperature Departures as on 21-04-2021: Minimum temperatures are above normal (1.6°C to 3.0°C) at most places over West Bengal & Sikkim and East Uttar Pradesh; at many places over Jharkhand; at a few places over Bihar; at isolated places over West Uttar Pradesh, Madhya Pradesh, Odisha, Gujarat state and Assam & Meghalaya. They are appreciably below normal (-3.0°C to -5.0°C) at many places over West Rajasthan and Haryana, Chandigarh & Delhi; at isolated places over Himachal Pradesh, Uttarakhand, East Rajasthan, Telangana and below normal (-1.6°C to -3.0°C) at many places over Chhattisgarh and Punjab and at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country. Today, the lowest minimum temperature of 15.4°C reported at Sikar (East Rajasthan) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 21 April (Day 1): Thunderstorm with lightning, hail & gusty wind (speed 40-50 kmph) very likely at isolated places over Uttarakhand; with lightning, hail & gusty wind (speed 30-40 kmph) at isolated places over Sub-Himalayan West Bengal & Sikkim; with lightning & gusty wind (speed reaching 40-50 kmph) at isolated places over Odisha; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Bihar, Jharkhand, Gangetic West Bengal and Assam & Meghalaya and with lightning at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Interior Karnataka, Kerala & Mahe, Lakshadweep and Tamilnadu, Puducherry & Karaikal. Heavy rainfall very likely at isolated places over Jammu & Kashmir, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh and Uttarakhand.
- 22 April (Day 2): Thunderstorm with lightning, hail & gusty wind (speed reaching 30-40 kmph) very likely at isolated places over Assam & Meghalaya; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Jharkhand, West Bengal & Sikkim, Odisha and with lightning at isolated places over Vidarbha, Chhattisgarh, Bihar, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe.
- 23 April (Day 3): Thunderstorm with lightning & gusty wind (speed reaching 30-40 kmph) very likely at isolated places over Himachal Pradesh and Uttarakhand and with lightning at isolated places over Odisha, Coastal Andhra Pradesh & Yanam, Telangana, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal.
- 24 April (Day 4): Thunderstorm with lightning likely at isolated places over Coastal Andhra Pradesh & Yanam, Telangana, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal.
- 25 April (Day 5): Thunderstorm with lightning & gusty wind (speed reaching 30-40 kmph) likely at isolated places over Assam & Meghalaya and with lightning at isolated places over Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal.
- The weather outlook for seven days i.e., 21 Apr to 29 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)

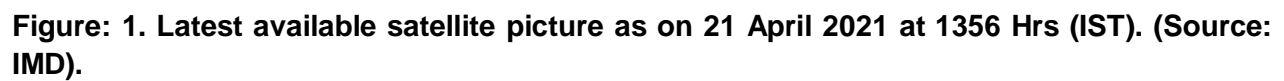
Gujarat

Weather condition:

The actual maximum temperature was 1.1 °C and the actual minimum temperature was 1.2 °C higher as compare to their normal. Total BSS was 66.5 hrs. with an average of 9.5 hrs. The daily average evaporation and wind speed was 8.4 mm and 3.1 km/hr respectively. The daily average RH during morning and afternoon was 73.4 % and 25.3 % 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.
- 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.



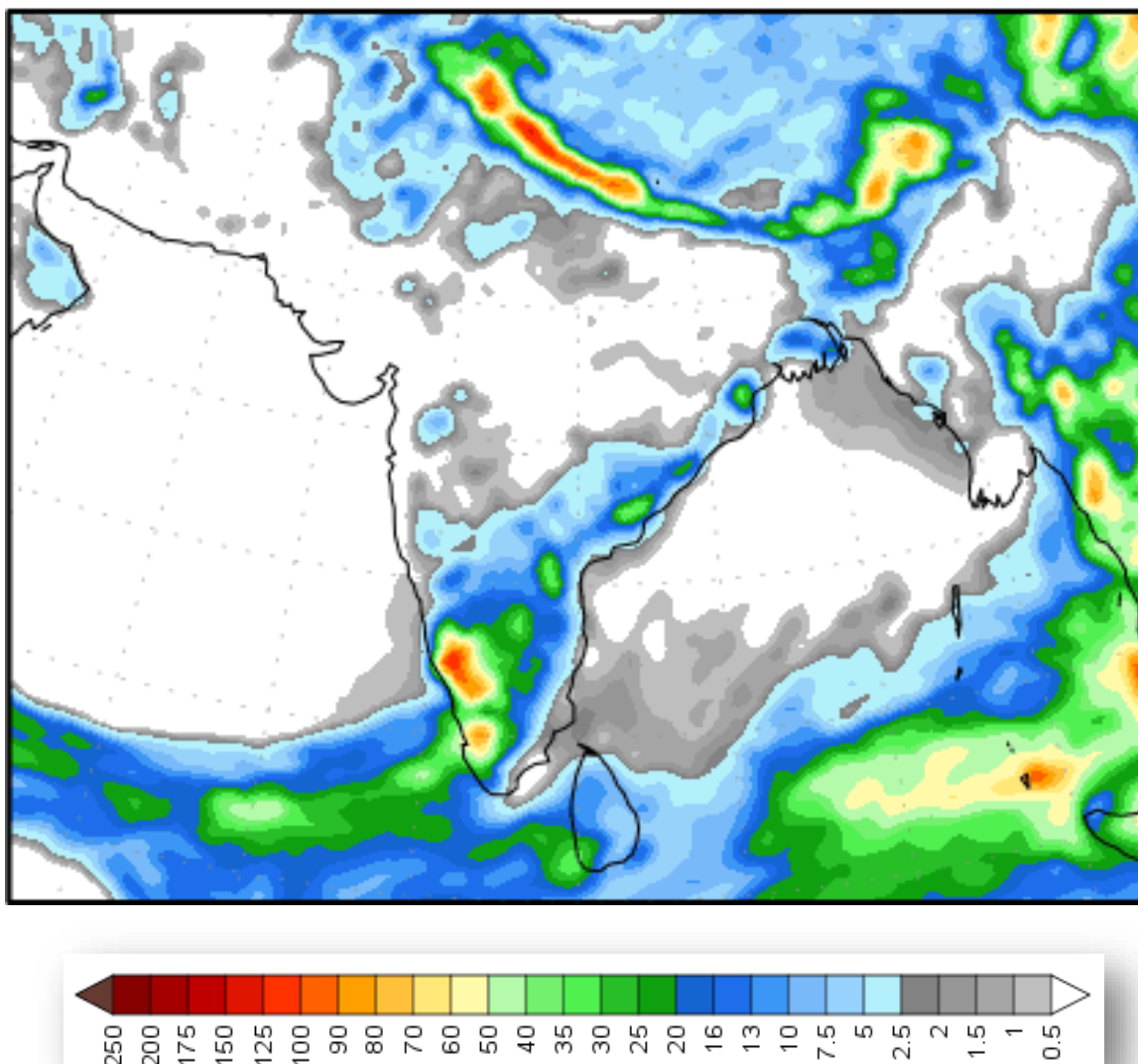


Figure:2. Precipitation forecast for 21 to 29 Apr 2021 (Source: NOAA NCEP).

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