

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 10 April 2019

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- An approaching western disturbance is likely to cause scattered to fairly widespread rain/thundershowers with isolated thunderstorms and gusty winds over Jammu & Kashmir and isolated to scattered over Himachal Pradesh and Uttarakhand during next 3 days. Isolated hailstorms are likely over these regions tomorrow. Isolated Duststorm/thunderstorm (gusty winds, speed reaching 40-50 kmph) are also likely over Rajasthan during next 48 hours and over Punjab, south Haryana, Delhi and West Uttar Pradesh on 11th & 12th April.
- Isolated thundersqualls (wind speed reaching 60-70 kmph) are likely over Gangetic West Bengal, south Assam & Meghalaya and Mizoram & Tripura during next 24 hours.
- Heat wave conditions are likely to continue over West Rajasthan (in some parts) and at isolated pockets over East Rajasthan and West Madhya Pradesh during next 2-3 days. Isolated pockets of East Madhya Pradesh and Vidarbha are also likely to experience heat wave conditions during next 2 days.
- The images showing the latest satellite picture in figure. 1.

Main Weather Observations (IMD)

- Rain/Thundershowers observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at most places over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; at many places over Jammu & Kashmir and Gangetic West Bengal; at a few places over Sub-Himalayan West Bengal & Sikkim, Odisha, Chhattisgarh and South Interior Karnataka and at isolated places over Bihar, Coastal Andhra Pradesh, Tamilnadu & Puducherry and Kerala. Thunderstorm observed at isolated places over Bihar, Odisha, Coastal Andhra Pradesh, Chhattisgarh, Rayalaseema, Assam & Meghalaya, West Bengal & Sikkim, Nagaland, Manipur, Meghalaya & Tripura, South Interior Karnataka and Kerala.
- Yesterday, Heat wave conditions observed in many places over West Rajasthan and at isolated pockets over East Rajasthan.

- Maximum temperature departures as on 09.04.2019: Maximum temperatures were markedly above normal (5.1°C or more) at many places over Jammu & Kashmir and West Rajasthan; appreciably above normal (3.1°C to 5.0°C) at most places over East Rajasthan and East Madhya Pradesh; at many places over Himachal Pradesh, West Madhya Pradesh, Vidarbha and Marathwada; at a few places over Konkan & Goa and Kerala; at isolated places over Haryana, Chandigarh & Delhi, Uttar Pradesh and Tamilnadu; above normal (1.6°C to 3.0°C) at most places over Punjab; at many places over Jharkhand; at a few places over Gujarat State, Madhya Maharashtra and Rayalaseema and at isolated places over Telangana. They were markedly below normal (-5.1°C or less) at a few places over Assam & Meghalaya and at isolated places over Sub-Himalayan West Bengal & Sikkim and Bihar; appreciably below normal (-3.1°C to -5.0°C) at a few places over Gangetic West Bengal ; below normal (-1.6°C to -3.0°C) at a few places over Andaman & Nicobar Islands and near normal over rest parts of the country.
- Yesterday, the highest maximum temperature of 44.1°C was recorded at Nagpur (Vidarbha) over the country.
- Minimum temperature departures as on 10.04.2019: Minimum temperatures are markedly above normal (5.1°C or more) at a few places over Rajasthan: appreciably above normal (3.1°C to 5.0°C) at a few places over West Madhya Pradesh and at isolated places over Jammu & Kashmir, Haryana, Chandigarh & Delhi, East Madhya Pradesh Tamilnadu & Puducherry and Assam & Meghalaya; above normal (1.6°C to 3.0°C) at many places over Gujarat State; at a few places over Andaman & Nicobar Islands, Vidarbha, Coastal Andhra Pradesh, Kerala and Marathwada and at isolated places over Punjab, Telangana and Rayalaseema. They are appreciably below normal (-3.1°C to -5.0°C) at a few places over Gangetic West Bengal and Odisha and below normal (-1.6°C to -3.0°C) at a few places over Nagaland, Manipur, Mizoram & Tripura and Madhya Maharashtra and near normal over rest parts of the country.

Weather Warning during next 5 days (IMD)

- 10 April (Day1): Heat Wave conditions in some parts very likely over West Rajasthan and at isolated pockets over Madhya Pradesh, Vidarbha and East Rajasthan. Thunderstorm accompanied with squall (wind speed reaching 60-70 kmph) at isolated places very likely over Gangetic West Bengal, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm/Duststorm accompanied with gusty winds (wind speed reaching 40-50 kmph) and lightning at isolated places very likely over Rajasthan and West Madhya Pradesh. Thunderstorm accompanied with gusty winds (wind speed reaching 40-50 kmph) & lightning at isolated places very likely over Jammu & Kashmir, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Odisha, Coastal Andhra Pradesh, Telangana, Rayalaseema, Interior Karnataka and Kerala.

- 11 April (Day 2): Heat Wave conditions at some parts very likely over west Rajasthan and in isolated pockets very likely over East Rajasthan and Madhya Pradesh. Thunderstorm accompanied with hail, gusty winds and lightning at isolated places very likely over Jammu & Kashmir, Himachal Pradesh and Uttarakhand. Thunderstorm/Duststorm accompanied with gusty winds and lightning at isolated places very likely over Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh and Rajasthan. Thunderstorm accompanied with gusty winds and lightning at isolated places very likely over Madhya Pradesh, Gangetic West Bengal, Odisha, Interior Karnataka, Kerala, Coastal Andhra Pradesh, Chhattisgarh, Madhya Maharashtra and Marathwada.
- 12 April (Day 3): Heat Wave conditions in isolated pockets likely over Rajasthan. Thunderstorm/Duststorm accompanied with gusty winds and lightning at isolated places very likely over Punjab and Haryana, Chandigarh & Delhi. Thunderstorm accompanied with gusty winds and lightning very likely at isolated places over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, East Madhya Pradesh, Madhya Maharashtra, Marathawada, Chhattisgarh, Odisha and Nagaland, Manipur, Mizoram & Tripura.
- 13 April (Day 4): Thunderstorm accompanied with gusty winds and lightning likely at isolated places over East Madhya Pradesh, Chhattisgarh, Bihar, Sub-Himalayan West Bengal & Sikkim, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Coastal Andhra Pradesh.
- 14 April (Day 5): Thunderstorm accompanied with squally winds (wind speed reaching 60-70 kmph) at isolated places likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm accompanied with gusty winds and lightning likely at isolated places over Bihar, West Bengal & Sikkim and Odisha.
- The weather outlook for the period of seven days *i.e* 10 to 17 April 2019 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thundershower may occur over Jammu & Kashmir, Gangetic West Bengal, Sub-Himalayan West Bengal & Sikkim, Bihar, Chhattisgarh, Odisha, Rayalaseema, South Interior Karnataka, Coastal Andhra Pradesh, Kerala, Tamilnadu & Puducherry and North Eastern States. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Rajasthan

Weather condition:

Entire Rajasthan state experienced hot and dry weather during past few days. The maximum temperature range from 37.6 to 40.0 °C with mean value of 38.9°C which was 4.2 °C above the normal value. The minimum temperature range from 15.2 to 20.6 °C with mean value of 18.0°C which was 1.1°C above normal. The highest temperature of 43.6 °C was recorded in Jaisalmer.

Contingency measure:

- After harvesting and threshing of rabi crops, grains should be properly cleaned and it should be sun dried before storage.
- Sowing of forage maize (var. African tall and Pratap Makka-6) and green gram should take up during this week. Green gram varieties are K-851, Pusa Baisakhi, RMG-62 and SML-668. Seed treatment with crop specific Rhizobium culture as well as phosphorus solubilizing bacteria should be done before sowing of green gram.
- Sowing of green manure crop is advised where harvesting of rabi crop is over. For green manuring cluster bean, daincha, senai, lobia etc may be sown. Constant monitoring of insect pest in vegetables.
- Deep ploughing of fields after harvesting of rabi crops is advised.

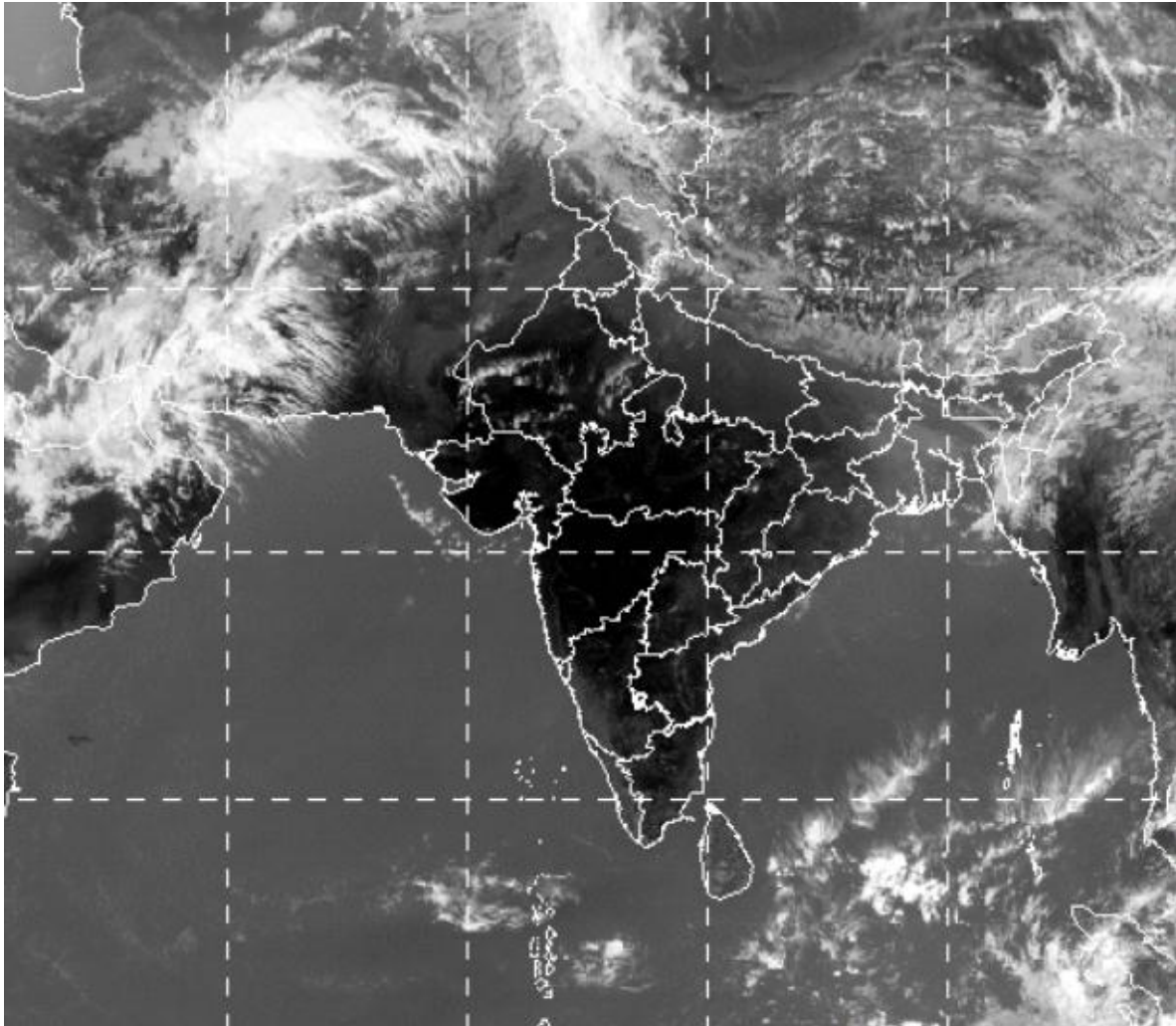


Figure: 1. Latest available satellite picture as on 10 April 2019 at 0230 Hrs (IST).

(Source: IMD).

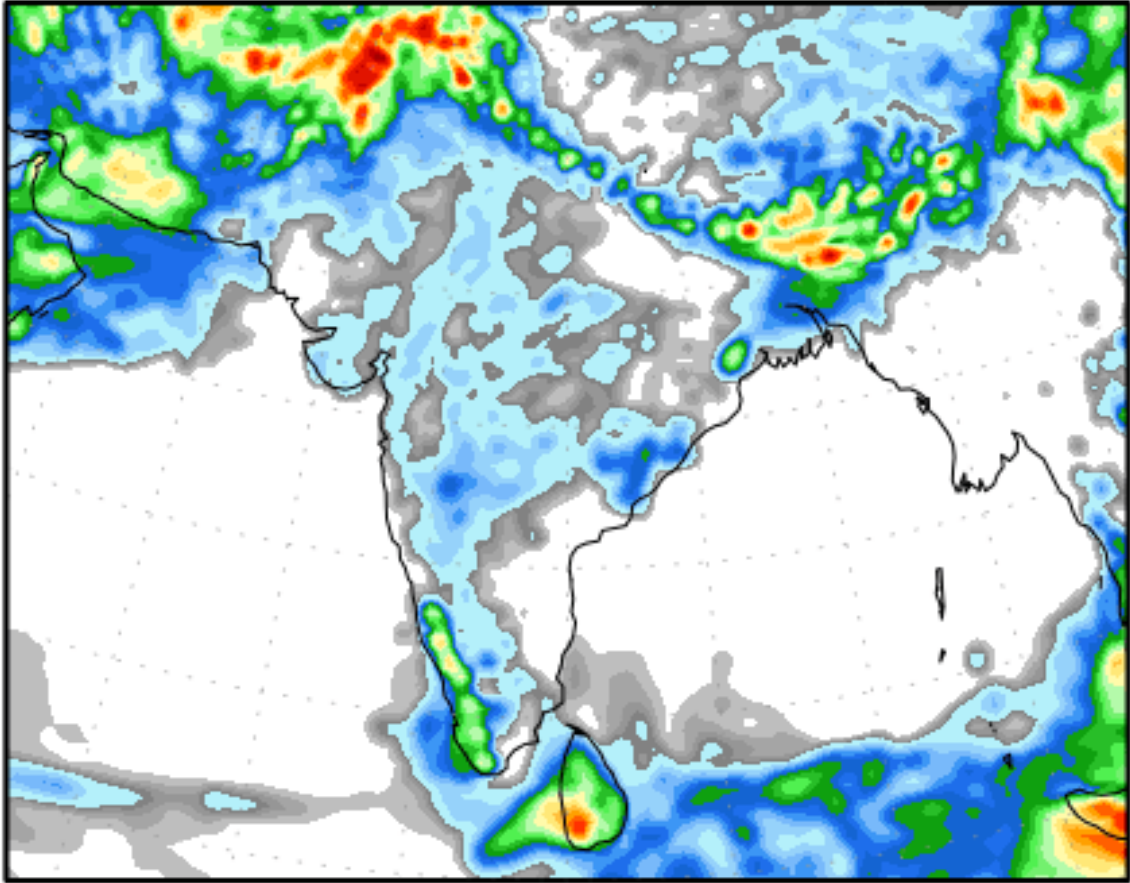


Figure: 2. Precipitation forecast for 10 to 17 April 2019 (Source: NOAA NCEP).