

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 09 April 2019

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Fairly widespread to widespread rainfall with isolated thundersquall (wind reaching 60-70kmph) likely to occur over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura and isolated thundersqualls over north Bihar and north Coastal Andhra Pradesh during next 24 hours.
- An approaching western disturbance is likely to cause scattered to fairly widespread rain/thundershowers with isolated thunderstorms/hailstorms and gusty winds over Jammu & Kashmir, Himachal Pradesh and Uttarakhand during 10-12 April. Isolated Duststorm/thunderstorm (gusty winds, speed reaching 40-50 kmph) are also likely over Punjab, south Haryana, Delhi and Rajasthan during the same period and over Uttar Pradesh during 11-13 April.
- 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.
- The images showing the latest satellite picture in figure. 1.

Main Weather Observations (IMD)

- Rain/Thundershowers observed (from 0830 hrs IST of yesterday to 0830 hours IST of today): at most places over Nagaland. Manipur, Mizoram & Tripura, Sub-Himalayan West Bengal & Sikkim and Jharkhand; at many places over Uttarakhand; at a few places over Assam & Meghalaya, Odisha and South Interior Karnataka; at isolated places over Arunachal Pradesh, Gangetic West Bengal, Bihar, Jammu & Kashmir, Himachal Pradesh, Haryana & Chandigarh, Chhattisgarh, Andhra Pradesh, Telangana, Coastal & North Interior Karnataka and Kerala. Heavy rainfall observed at isolated places over Sub-Himalayan West Bengal & Sikkim.
- Yesterday, heat wave conditions were observed in some parts over West Rajasthan and at isolated pockets over East Rajasthan.

- Maximum temperature departures as on 08.04.2019: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at most places over Jammu & Kashmir and West Rajasthan; at many places over East Rajasthan; at a few places over West Madhya Pradesh, Madhya Maharashtra and Vidarbha; above normal (1.6°C to 3.0°C) at most places over Marathwada, Rayalaseema, Coastal & South Interior Karnataka; at many places over Haryana, Chandigarh & Delhi, East Madhya Pradesh, Tamilnadu, North Interior Karnataka, Kerala and Lakshadweep; at a few places over Chhattisgarh, Gujarat State, Konkan & Goa, Telangana and at isolated places over Jharkhand. They were markedly below normal (-5.1°C or less) at most places over Bihar; appreciably below normal (-3.1°C to -5.0°C) at many places over West Bengal & Sikkim; at a few places over Himachal Pradesh, East Uttar Pradesh, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura; below normal (-1.6°C to -3.0°C) at many places over Andaman & Nicobar Islands and near normal over rest parts of the country.
- Yesterday, the highest maximum temperature of 44.5°C was recorded at Khargone (West Madhya Pradesh) over the country.
- Minimum temperature departures as on 09.04.2019: Minimum temperatures are markedly above (5.1°C or more) at many places over West Rajasthan; at few places over East Rajasthan: appreciably above normal (3.1°C to 5.0°C) at a few places over West Madhya Pradesh and Chhattisgarh and at isolated places over Assam & Meghalaya, West Uttar Pradesh and Vidarbha; above normal (1.6°C to 3.0°C) at many places over Uttar Pradesh, Haryana, Chandigarh & Delhi, Jammu & Kashmir, East Madhya Pradesh, Gujarat State, Tamilnadu & Puducherry and Kerala; at a few places over Andaman & Nicobar Islands, Madhya Maharashtra , Marathawada, Andhra Pradesh and Kerala and at isolated places over Himachal Pradesh. They are markedly below normal (-5.1°C or less) at many places over Nagaland, Manipur, Mizoram & Tripura; a few places over Gangetic West Bengal and at isolated places over Odisha and near normal over rest of the country.
- Today, the lowest minimum temperature of 15.0°C was recorded at Karnal (Haryana) over the plains of the country.

Weather Warning during next 5 days (IMD)

- 09 April (Day1): Heat Wave conditions in some parts very likely over West Rajasthan and at isolated pockets over West Madhya Pradesh and East Rajasthan. Thunderstorm accompanied with squall (wind speed reaching 60-70 kmph) & lightning at isolated places very likely over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Bihar and north Coastal Andhra Pradesh. Thunderstorm accompanied with gusty winds (wind speed reaching 40-50 kmph) & lightning at isolated places very likely over Chhattisgarh, Arunachal Pradesh, Gangetic West Bengal, Tamil Nadu, Kerala,

Telangana, Jharkhand and South Interior Karnataka. Thunderstorm accompanied with hailstorm, gusty winds and lightning at isolated places very likely over Odisha. Thunderstorm/Duststorm accompanied with gusty winds (wind speed reaching 40-50 kmph) and lightning at isolated places very likely over West Madhya Pradesh and East Rajasthan. Heavy rain at isolated places very likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

- 10 April (Day 2): Heat Wave conditions in some parts very likely over West Rajasthan and at isolated pockets over West Madhya Pradesh and East Rajasthan. Thunderstorm/Duststorm accompanied with gusty winds (wind speed reaching 40-50 kmph) and lightning at isolated places very likely over Haryana, Chandigarh & Delhi and Rajasthan. Thunderstorm accompanied with gusty winds (wind speed reaching 40-50 kmph) & lightning at isolated places very likely over Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamilnadu, Kerala, South Interior Karnataka, and Telangana. Thunderstorm accompanied with hailstorm, gusty winds and lightning at isolated places very likely over Jammu & Kashmir, Himachal Pradesh and Uttarakhand.
- 11 April (Day 3): Heat Wave conditions in isolated pockets very likely over Rajasthan. Thunderstorm accompanied with hail, gusty winds and lightning at isolated places very likely over Jammu & Kashmir, Himachal Pradesh, Uttarakhand and Punjab. Thunderstorm/Duststorm accompanied with gusty winds and lightning at isolated places very likely over Haryana, Chandigarh & Delhi, Uttar Pradesh and Rajasthan. Thunderstorm accompanied with gusty winds and lightning at isolated places very likely over Odisha, Coastal Andhra Pradesh, Chhattisgarh, Madhya Maharashtra and Marathwada.
- 12 April (Day 4): Heat Wave conditions in isolated pockets likely over West Rajasthan. Thunderstorm accompanied with hail, gusty winds and lightning at isolated places likely over Punjab and Uttarakhand. Thunderstorm/Duststorm accompanied with gusty winds and lightning at isolated places likely over Haryana, Chandigarh & Delhi, Uttar Pradesh and Rajasthan. Thunderstorm accompanied with gusty winds and lightning likely at isolated places over Jammu & Kashmir, Himachal Pradesh, Marathawada, Chhattisgarh, Bihar, West Bengal & Sikkim, Odisha, Assam & Meghalaya and Nagaland, Manipur, Mizoram and Tripura.
- 13 April (Day 5): Thunderstorm accompanied with gusty winds and lightning likely at isolated places over Coastal Andhra Pradesh, Bihar, Sub- Himalayan West Bengal & Sikkim, Odisha, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm/Duststorm accompanied with gusty winds and lightning at isolated places likely over West Uttar Pradesh.
- The weather outlook for the period of seven days *i.e* 09 to 16 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, Himachal Pradesh, Uttarakhand, Haryana & Chandigarh, Sub-Himalayan West Bengal & Sikkim, Gangetic West Bengal, Bihar, Jharkhand, Odisha, South Interior Karnataka, Chhattisgarh, Andhra Pradesh, Telangana, Coastal & North Interior Karnataka, Kerala and North Eastern States. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Punjab

Weather condition:

Dry weather prevailed in Punjab state during past few days. The maximum temperature ranged between 32.8 to 36.0°C and minimum temperature ranged between 14.4 to 21.6°C.

Contingency measure:

- Wheat: Farmers can start harvesting of early sown wheat as clear weather is expected in coming 2-3 days. Farmers are advised to apply light irrigation to wheat crop as per requirement so that water stress may not affect the yield of the crop adversely.
- Cotton: It is the right time for the sowing of recommended varieties/hybrids of cotton including Bt cotton or desi cotton. Sow seeds in polythene bags to fill gaps in cotton. As hot and dry weather is expected in coming days, farmers are advised to sow the crop during morning and evening hours.
- Sugarcane: Irrigate the crop at 7-12 days interval for better growth of the crop. Apply 65 kg urea to ratoon crop. Apply paddy straw or rice husk or sugarcane trash @ 20-25 q/acre between the rows of sugarcane to reduce soil temperature and moisture loss.
- Vegetables: Fruit borer attack in tomato crop can be checked by spraying 30 ml of Fame 480 SL or 60ml Coragen 18.5 or 200ml Indoxacarb 14.5 SC in 100 litres of water per acre. Onion thrips should be checked by spraying 250 ml Malathion 50 EC in 80 litres of water per acre. Do not spray during the 7 days before harvest. Red pumpkin beetle attack on cucurbits can be reduced by spraying 75-150 g of Sevin/ Hexavin 50 WP in 50-100 litres of water per acre.
- Fruit Plants: For management of citrus psylla, spray 200 ml crocodile/confidor 17.8 SL (Imidacloprid) or 160 g Actara/Dotara (Thiamethoxam) by mixing in 500 liters of

water per acre. To check zinc deficiency in citrus, spray the affected trees with 0.47 zinc sulphate (4.7g/litre of water) solution, without addition of lime, to spring flush. To manage anthracnose in grapes, spray Bavistin @ 1.0 g per litre water.

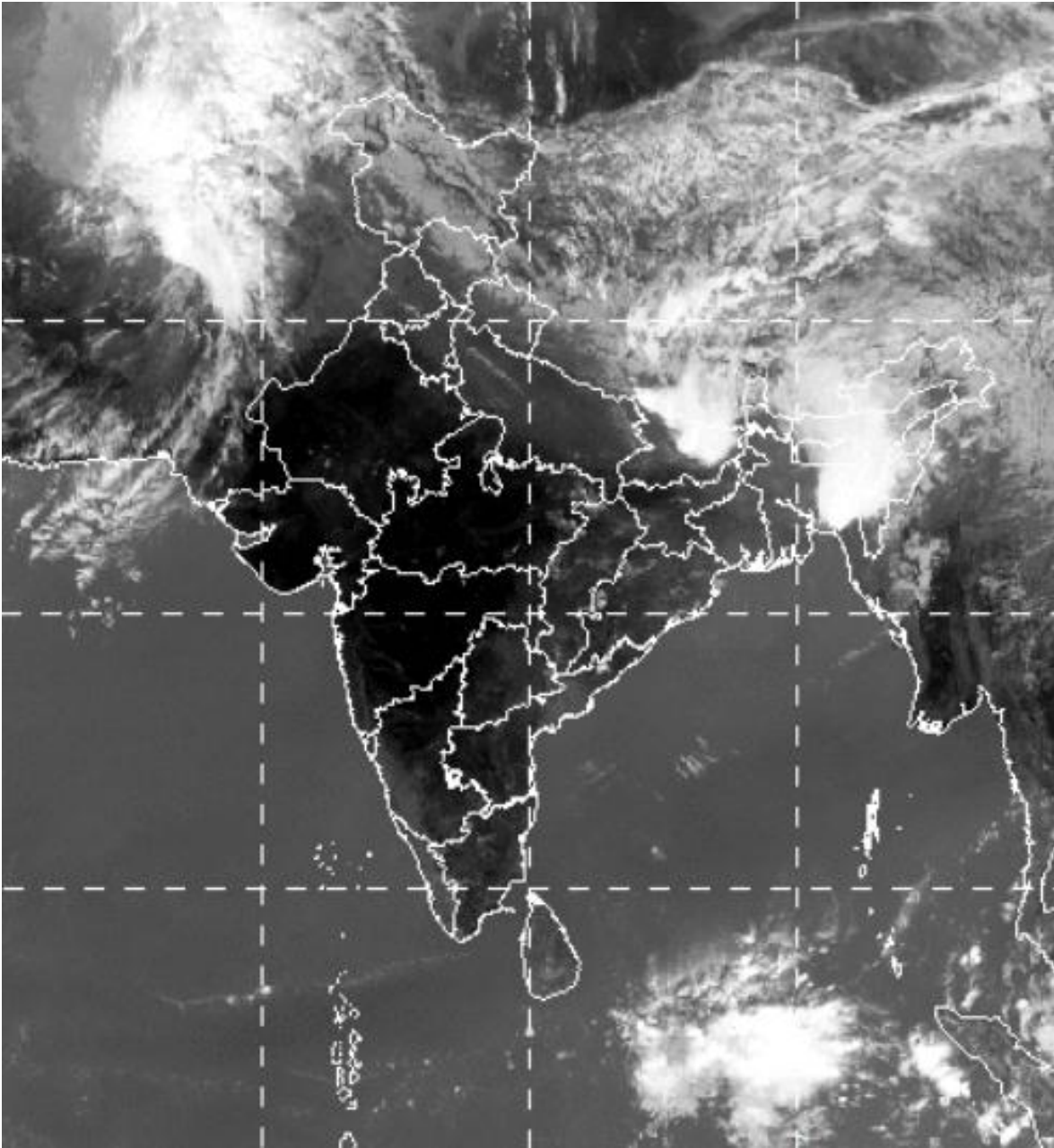


Figure: 1. Latest available satellite picture as on 09 April 2019 at 0230 Hrs (IST).

(Source: IMD).

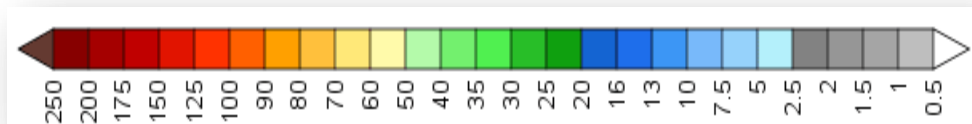
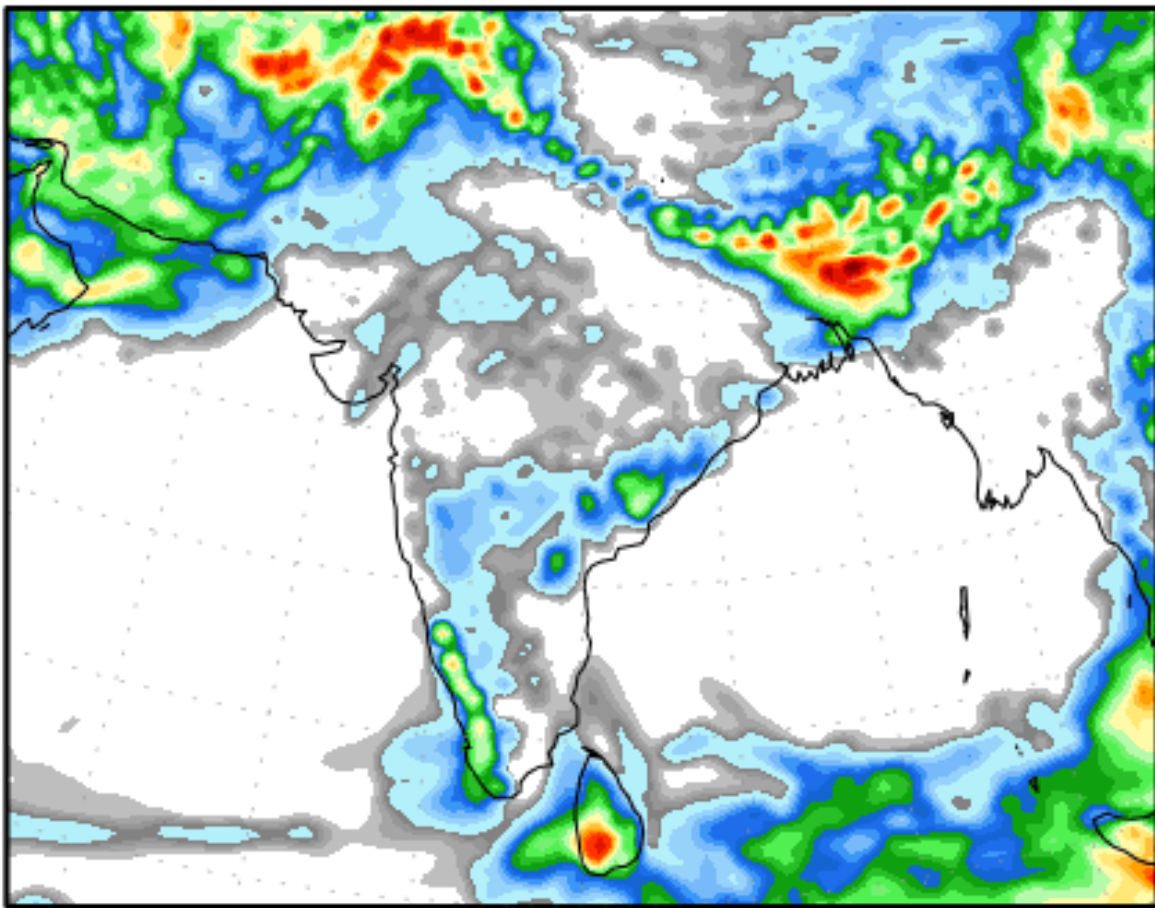


Figure: 2. Precipitation forecast for 09 to 16 April 2019 (Source: NOAA NCEP).