

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 18 April 2019

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Isolated thundersquall (wind speed reaching 50-60 kmph) are likely over Gangetic West Bengal on 19th April ,over Odisha on 18th & 19th April and over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura on 20th & 21st April. Thunderstorms and gusty winds (speed reaching 30-40 kmph and at times 40-50 kmph) are likely over Kerala, Tamilnadu, Andhra Pradesh, Telangana, Rayalaseema, south Chhattisgarh, Jharkhand and Sub-Himalayan West Bengal & Sikkim during next 3 days.
- Day maximum temperatures are likely to rise significantly over northwest and central India during next 3-4 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 Jammu & Kashmir, Himachal Pradesh, Punjab and Haryana, Chandigarh & Delhi; at many places over Uttar Pradesh, East Madhya Pradesh, Jharkhand, Uttarakhand and Kerala; at a few places over Bihar, Arunachal Pradesh and Tamilnadu & Puducherry and at isolated places over Rajasthan, West Madhya Pradesh, Gangetic West Bengal, Odisha and South Interior Karnataka and Telangana. Thunderstorms observed at many places over Kerala and at isolated places over Uttarakhand, Haryana, Chandigarh & Delhi, Punjab, Rajasthan, East Uttar Pradesh, Bihar, Jharkhand, Gangetic West Bengal, Assam & Meghalaya, Odisha, East Madhya Pradesh, Chhattisgarh, South Interior Karnataka, Tamilnadu & Puducherry and Lakshadweep from 0830 hours IST of yesterday to 0830 hours IST of today.
- Maximum temperature departures as on 17.04.2019: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over Kerala and Tamilnadu & Puducherry; above normal (1.6°C to 3.0°C) at isolated places over Coastal & South Interior Karnataka, Odisha and Tripura. They were markedly below normal (-5.1°C or less) at most places over Jammu & Kashmir, Himachal

Pradesh, Punjab, Haryana, Chandigarh & Delhi, Rajasthan and Uttar Pradesh; at many places over Madhya Pradesh, Gujarat Region and Bihar and at isolated places over Vidarbha; appreciably below normal (-3.1°C to -5.0°C) at most places over Jharkhand; at many places over Chhattisgarh; at a few places over Saurashtra & Kutch and at isolated places over Sub-Himalayan West Bengal & Sikkim and Madhya Maharashtra; below normal (-1.6°C to -3.0°C) at most places over Marathwada; at many places over Gangetic West Bengal and at isolated places over North Interior Karnataka and Assam & Meghalaya and near normal over rest parts of the country.

- Yesterday, the highest maximum temperature of 42.6°C was recorded at Tirupathi (Rayalaseema) over the country.
- Minimum temperature departures as on 18.04.2019: Minimum temperatures are above normal (1.6°C to 3.0°C) at many places over Tamilnadu & Puducherry, Rayalaseema and Nagaland, Manipur, Mizoram & Tripura; at a few places over Assam & Meghalaya and Arunachal Pradesh and at isolated places over Telangana. They are Markedly below normal (-5.1°C or less) at a few places over Haryana, Chandigarh & Delhi; and at isolated places over East Madhya Pradesh; appreciably below normal (-3.1°C to -5.0°C) at most places over Punjab; at many places over West Rajasthan and West Madhya Pradesh; at a few places over East Rajasthan, Vidarbha and Madhya Maharashtra; below normal (-1.6°C to -3.0°C) at many places over Marathwada; at a few places over Konkan & Goa and Himachal Pradesh; at isolated places over Jammu & Kashmir, Uttarakhand, Uttar Pradesh, Bihar, Jharkhand, Odisha, Gangetic West Bengal, Chhattisgarh and Kerala and near normal over rest parts of the country.

Weather Warning during next 5 days (IMD)

- 18 April (Day 1): Thundersquall (wind speed reaching 60-70 kmph) accompanied with hail and lightning at isolated places very likely over Odisha. Thunderstorm accompanied with gusty winds (wind speed reaching 30-40 kmph) and lightning at isolated places very likely over Tamilnadu, Rayalaseema, Telangana, West Bengal & Sikkim, Jharkhand, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm accompanied with gusty winds (wind speed reaching 40-50 kmph) and lightning at isolated places very likely over Kerala, South Interior Karnataka, Coastal Andhra Pradesh, Chhattisgarh and Uttarakhand. Heavy rainfall at isolated places very likely over Arunachal Pradesh, South Interior Karnataka and Kerala.
- 19 April (Day 2): Thundersquall (wind speed reaching 60-70 kmph) accompanied with hail and lightning at isolated places very likely over Odisha. Thundersquall (wind speed reaching 50-60 kmph) accompanied with lightning at isolated places very likely over Gangetic West Bengal. Thunderstorm accompanied with gusty

winds (wind speed reaching 30-40 kmph) and lightning at isolated places very likely over Tamilnadu, Coastal Andhra Pradesh, Jharkhand, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm accompanied with gusty winds (wind speed reaching 40-50 kmph) and lightning at isolated places very likely over Kerala and Telangana.

- 20 April (Day 3): Thundersquall (wind speed reaching 50-60 kmph) accompanied with lightning at isolated places very likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm accompanied with gusty winds (wind speed reaching 30-40 kmph) and lightning at isolated places very likely over Tamilnadu, Coastal Andhra Pradesh, Rayalaseema, Gangetic West Bengal and Odisha. Thunderstorm accompanied with gusty winds (wind speed reaching 40-50 kmph) and lightning at isolated places very likely over Kerala, South Interior Karnataka and Telangana.
- 21 April (Day 4): Thundersquall (wind speed reaching 50-60 kmph) accompanied with lightning at isolated places very likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm accompanied with gusty winds (wind speed reaching 30-40 kmph) and lightning at isolated places likely over Coastal Andhra Pradesh. Thunderstorm accompanied with gusty winds (wind speed reaching 40-50 kmph) and lightning at isolated places likely over Telangana, Uttarakhand, Sub-Himalayan West Bengal & Sikkim and Odisha. Heat Wave conditions at isolated pockets likely over Rajasthan.
- 22 April (Day 5): Thunderstorm accompanied with gusty winds (wind speed reaching 30-40 kmph) and lightning at isolated places likely over Gangetic West Bengal. Thunderstorm accompanied with gusty winds (wind speed reaching 40-50 kmph) and lightning at isolated places likely over Sub-Himalayan West Bengal & Sikkim, Jharkhand, Odisha, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Heat Wave conditions likely over some parts of Rajasthan.
- The weather outlook for the period of seven days *i.e* 18 to 25 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, Uttarakhand, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Rajasthan, Uttar Pradesh, Gangetic West Bengal, Bihar, Jharkhand, Madhya Pradesh, Odisha, Telangana, South Interior Karnataka, Kerala, Tamilnadu & Puducherry, Lakshadweep and North Eastern States. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Gujarat

Weather condition:

Dry weather prevailed in Gujarat state during past few days. The actual maximum temperature is 2.1°C and actual minimum temperature is 1.9°C above normal as compared to their normal values.

Contingency measure:

- Complete the sowing of summer pearl millet. Select the variety like MH-169, GHB-526, GHB-558 and GHB-538 using seed rate 4 kg/ha. Summer Green gram Select variety like K-851, Gujarat moong-2, Gujarat moong-3, Gujarat moong-4, Gujarat moong-5, Meha, Pusa baisakhi and sowing @ seed rate 20-25 kg/ha. Apply 20 kg Nitrogen and 40 kg P₂O₅/ha as basal.
- 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. Pigeon pea: Pod development : Heliothis and Pod fly : Apply quinalphos 25 Ec 20 ml in 10 lit of water on pods to control pod fly.
- Castor : Capsule Maturity : Carefully harvest the matured capsule from the castor plants
- Mango: Reduction of high temperature effect of mango fruits can be managed by irrigating the orchard. Apply half dose of nitrogen (750 g urea or 1750 g Ammonium sulphate) followed by two irrigations at 20-25 days interval.
- Cattle: Under present weather condition keep animals under shade or in sheds during noon hours, provide plenty of cool water mixed with minerals for drinking and shower the animals with cold water two to three times in a day.

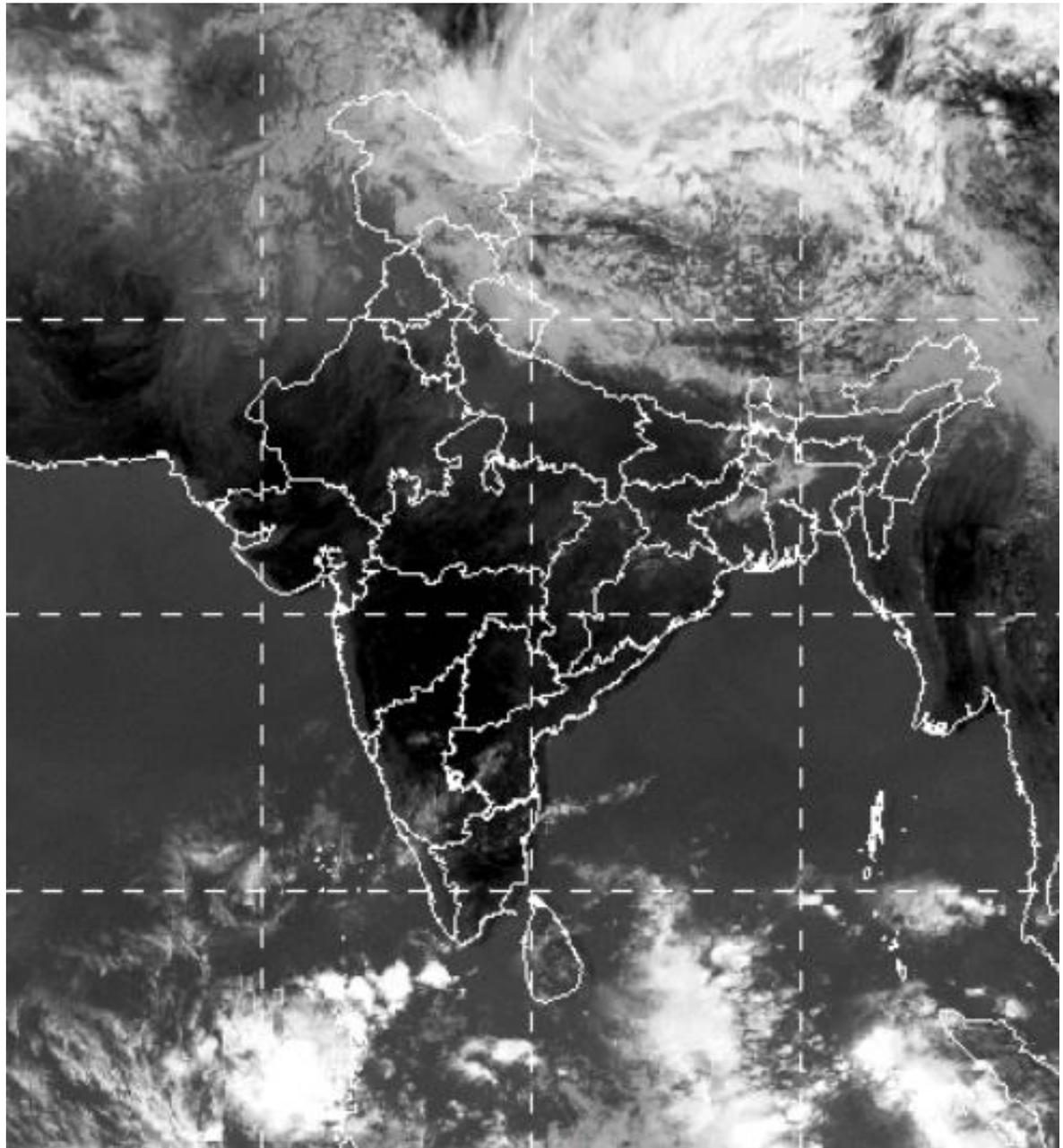


Figure: 1. Latest available satellite picture as on 18 April 2019 at 0230 Hrs (IST).

(Source: IMD).

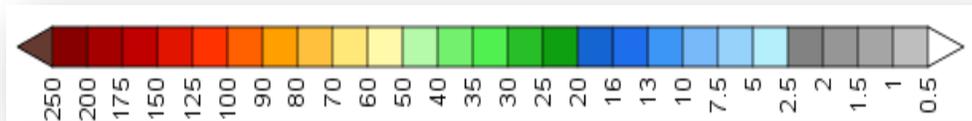
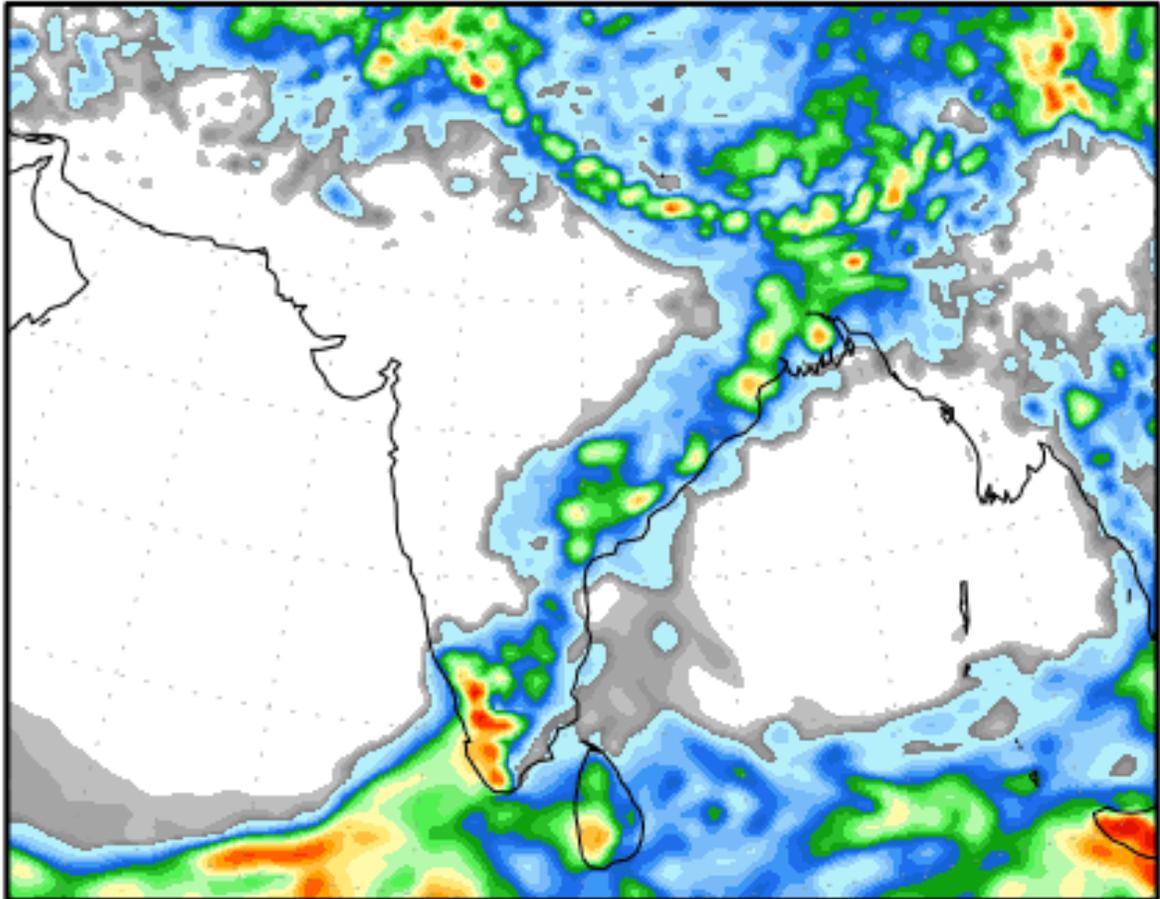


Figure: 2. Precipitation forecast for 18 to 25 April 2019 (Source: NOAA NCEP).