

All India Coordinated Research Project on Agrometeorology

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Daily Crop Weather Information as on 19 May 2018

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- There are two Western Disturbance one lies over Jammu & Kashmir and neighbourhood and another over Iran and neighbourhood; a cyclonic circulation lies over central parts of south Uttar Pradesh which is embedded in two troughs a north south trough from Uttarakhand to west Vidarbha and another eastwest trough upto Manipur across south Bihar, northern parts of West Bengal and Meghalaya in lower levels. The prevailing easterly winds over northern plains in lower level are also weakening. Under the influence of these weather systems, thunderstorms accompanied with gusty winds at isolated places very likely over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, east Haryana and north Madhya Pradesh and squall over Uttar Pradesh during next 24 hours. Meteorological conditions are also conducive for scattered to fairly widespread thundershowers with gusty winds and heavy rainfall at isolated places over northeast India and gusty winds at isolated places over east and peninsular India during next 2 days.
- Maximum temperatures are very likely to rise by 1-2°C over West & adjoining northwest and central India during next 2-3 days, leading to heat wave conditions same parts of with severe heat wave at one or two pockets over Vidharbha and heat wave at one or two pockets over Rajasthan, Madhya Pradesh and Gujarat during next 3 days.
- Yesterday, Heat wave conditions observed at one or two pockets over Vidharbha.
- Thunderstorm observed at a few places over Jammu & Kashmir and Gangetic West Bengal; at isolated places over Uttarakhand, Haryana, Jharkhand, Odisha, North Interior Karnataka, West Madhya Pradesh, Kerala and Tamilnadu & Puducherry from 1130 hours IST of yesterday to 0530 hours IST of today.
- The images showing the latest satellite picture in figure. 1.

Main Weather Observations (IMD)

- Rainfall observed (from 0830 hours to 1730 hours IST of yesterday): Rain/thundershowers observed at many places over Andaman & Nicobar Islands; at a few places over Jammu & Kashmir, Assam & Meghalaya and Arunachal Pradesh; at isolated places over Uttarakhand, West Madhya Pradesh, Gangetic West Bengal, Chhattisgarh, Tripura, south Interior Karnataka and Tamilnadu & Puducherry.

- Maximum temperature departures as on 18.05.2018: Maximum temperatures were appreciable above normal (3.1°C to 5.0°C) at a few places over Assam & Meghalaya ; at isolated places over Konkan & Goa and Andaman & Nicobar Islands; above normal (1.6°C to 3.0°C) at most places over Gujarat, Madhya Pradesh and Vidarbha; at many places over Uttarakhand, East Rajasthan and Jharkhand; at a few places over Himachal Pradesh and Konkan & Goa; at isolated places over Punjab, West Rajasthan, Marathwada, Madhya Maharashtra, Coastal & South Interior Karnataka, West Bengal & Sikkim and Odisha. They were appreciable below normal (3.1°C to 5.0°C) at isolated places over Jammu & Kashmir and below normal (1.6°C to 3.0°C) at a few places over Coastal Andhra Pradesh and north Interior Karnataka; at isolated places over Uttar Pradesh, Chhattisgarh, Kerala and Tamilnadu & Puducherry. Yesterday, the highest maximum temperature of 47.4°C was recorded at Chandrapur (Vidharbha).
- Minimum temperature departures as on 18.05.2018: Minimum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over Madhya Pradesh; above normal (1.6°C to 3.0°C) at most places over Uttarakhand; at many places over Gujarat region; at a few places over Vidharbha; at isolated places over Jammu & Kashmir, Rajasthan, Saurashtra & Kutch, Madhya Maharashtra, Bihar, Gangetic West Bengal, Assam & Meghalaya, Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura. They were below normal (1.6°C to 3.0°C) at a few places over North Interior Karnataka and Konkan & Goa and at isolated places over Tamilnadu & Puducherry and near normal over rest of the country.

Weather Warning during next 5 days (IMD)

- 19 May (Day 1): Thunderstorm accompanied with squall very likely at isolated places over Uttar Pradesh. Thunderstorm accompanied with gusty winds very likely at isolated places over Jammu & Kashmir, Himachal Pradesh, Haryana, Chandigarh & Delhi, East Rajasthan, Assam & Meghalaya, Coastal Andhra Pradesh, Coastal Karnataka, South Interior Karnataka, Tamilnadu, Kerala and Lakshadweep. Thunderstorm/ Dust storm very likely West Rajasthan. Heat wave conditions at some parts with severe heat wave at one or two pockets over Vidarbha; heat wave conditions at one or two pockets over West Rajasthan, Madhya Pradesh and Gujarat. Heavy rain at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Karnataka, South Interior Karnataka, Kerala and Lakshadweep. Gale winds speed reaching 75-85 kmph gusting to 95 kmph is very likely around the centre of the cyclone covering Gulf of Aden and adjoining areas of westcentral and southwest Arabian sea during next 12 hrs and gradually decrease thereafter becoming 65 -75 kmph gusting to 85 kmph during subsequent 12 hours. Fishermen are advised not to venture into Gulf of Aden and adjoining areas of westcentral and southwest Arabian sea during the next 48 hours.
- 20 May (Day 2): Thunderstorm accompanied with squall very likely at isolated places over Gangetic West Bengal. Thunderstorm accompanied with gusty winds very likely at isolated places over Bihar, Odisha, South Interior Coastal Karnataka and Kerala. Heat wave conditions at some parts with severe heat wave at one or two pockets over Vidarbha. Heavy rain at isolated places over Nagaland, Manipur, Mizoram & Tripura and South Interior Karnataka.

- 21 May (Day 3): Thunderstorm accompanied with gusty winds very likely at isolated places over Sub Himalayan West Bengal & Sikkim.
- 22 May (Day 4): Thunderstorm accompanied with gusty winds very likely at isolated places over Sub Himalayan West Bengal & Sikkim.
- 23 May (Day 5): Thunderstorm accompanied with gusty winds very likely at isolated places over Sub Himalayan West Bengal & Sikkim.

Agricultural activities (AICRPAM-CRIDA)

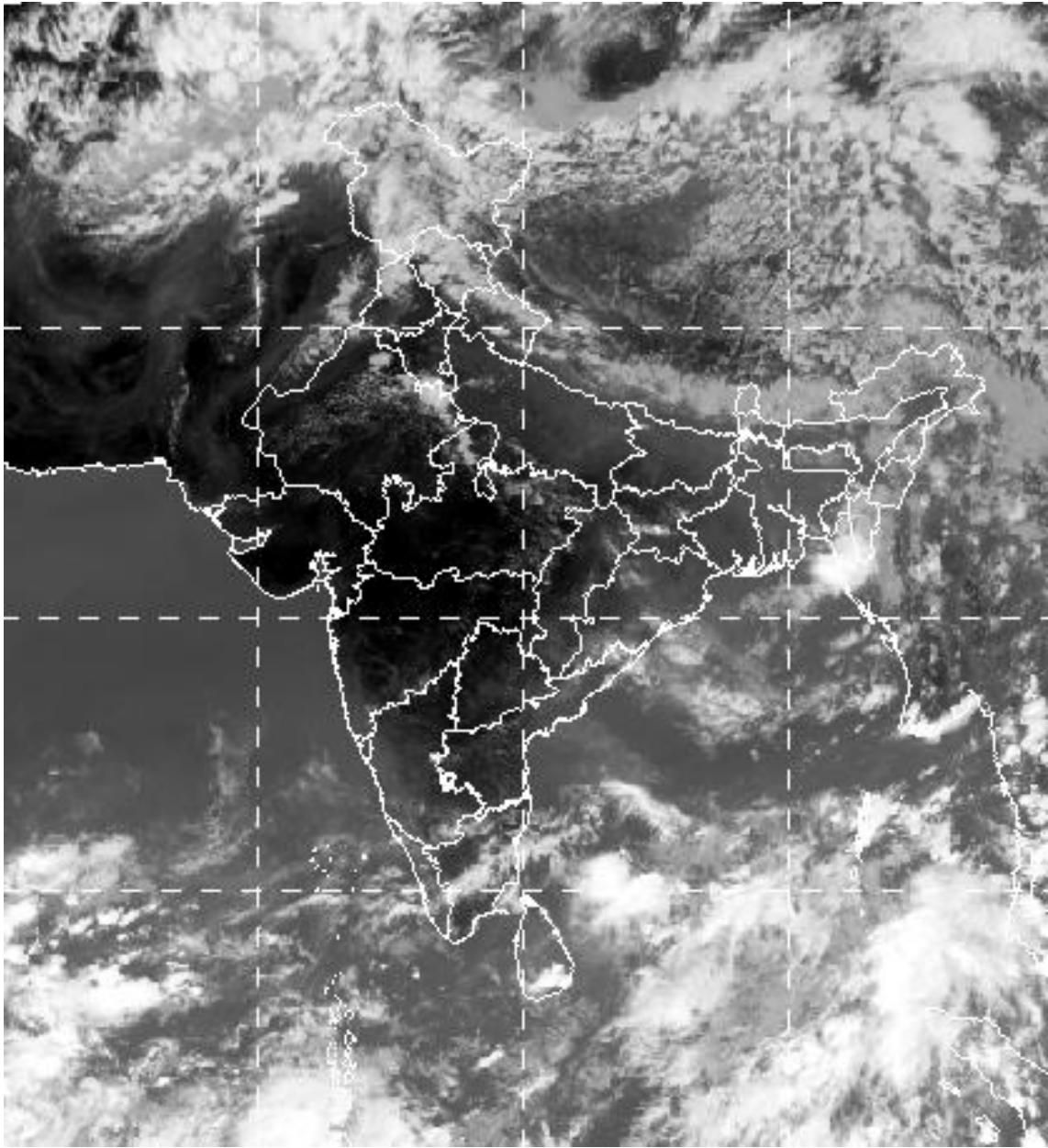
Kerala

Weather condition

Light rainfall received in Kerala state during past few days. The maximum temperature ranges from 33.9 to 34.9 °C and minimum temperature ranges from 21.4 to 23.7 °C.

Contingency measure:

- Paddy: Maturity stage. Drain out water from the fields completely for early and uniform hardening of the grain. Keep drying the grains for seed purpose.
- Coconut: Rhinoceros beetle. Farmers are advised to keep vigilance against Rhinoceros beetle. Inoculation of breeding sites with entomopathogenic fungus *Metarrhizium anisopliae* @ 10-15g per litre water. Application of neem cake mixed with equal volume of sand in the innermost leaf axils.
- Vegetables: (Bitter gourd). Fruit fly-Remove and destroy affected and decayed fruits. Use special pheromone traps like cue lure (6 nos/Acre) for vegetable fruit fly or Thulasi/fruit traps. If the attack is not reduced, spray mixture of 2 ml malathion and 10 g jagery in one liter of water during flowering and fruit initiation stage.



**Figure: 1. Latest available satellite picture as on 19 May 2018 at 0230 Hrs (IST).
(Source: IMD).**