

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 18 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 northsouth 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 system, thunderstorms accompanied with gusty winds at isolated places very likely over Jammu & Kashmir, Himachal Pradesh, Utrakhnad, east Haryana and north Madhya Pradesh and squall over Uttar Pradesh during next 48 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 2-3days.
- Maximum temperatures 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 at a few places with severe at isolated places over Vidharbha and heat wave at one or two pockets over Rajasthan, Madhya Pradesh and Gujarat during next 3 days.
- Yesterday, heat wave conditions were observed at one or two pockets over Vidharbha.
- Thunderstorm observed at a few places over south Madhya Maharashtra and Karnataka; at isolated places over Jammu & Kashmir, Rajasthan, Konkan & Goa, Telangana, Chhattisgarh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamilnadu and Kerala from 0830 hours IST of yesterday to 0830 hours IST of today.
- The images showing the latest satellite picture in figure. 1.

Main Weather Observations (IMD)

- Rainfall observed (from 0830 hours IST of yesterday to 0830 hours IST of today): Rain/thundershowers observed at most places over Kerala; at a few places over Jammu & Kashmir, Chhattisgarh, Telangana, interior Karnataka, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura; at isolated places over north Rajasthan, West Bengal & Sikkim, Arunachal Pradesh, north Coastal Andhra Pradesh, Coastal Karnataka, Konkan & Goa, Tamilnadu & Puducherry, Lakshadweep and Nicobar Islands.

- Maximum temperature departures as on 17.05.2018: Maximum temperatures were appreciable above normal (3.1°C to 5.0°C) at many places over Himachal Pradesh; at a few places over Saurashtra & Kutch; at isolated places over Madhya Maharashtra; above normal (1.6°C to 3.0°C) at most places over West Madhya Pradesh, Gujarat region & Vidharbha; at many places over Rajasthan and Andaman & Nicobar islands; at a few places over East Madhya Pradesh, Marathwada and Assam & Meghalaya; at isolated places over Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh and Coastal Karnataka. They were appreciable below normal (3.1°C to 5.0°C) at isolated places over West Bengal & Sikkim and below normal (1.6°C to 3.0°C) at most places over Bihar, at a few places over East Uttar Pradesh, Odisha and Coastal Andhra Pradesh; at isolated places over Jammu & Kashmir and Tamilnadu & Puducherry. Yesterday, the highest maximum temperature of 47.6°C was recorded at Chandrapur (Vidharbha).
- Minimum temperature departures as on 18.05.2018: Minimum temperatures are 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 are 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)

- 18 May (Day 1): Thunderstorm accompanied with squall very likely at isolated places over Uttar Pradesh, East Rajasthan, Nagaland, Manipur, Mizoram & Tripura. Thunderstorm accompanied with gusty winds very likely at isolated places over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, Madhya Pradesh, Vidharbha, Chhattisgarh, West Bengal & Sikkim, Odisha, Assam & Meghalaya, Madhya Maharashtra, Konkan & Goa, Andhra Pradesh, 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 Vidharbha; heat wave conditions at one or two pockets over West Rajasthan, Madhya Pradesh and Gujarat. Heavy to very heavy rain at a isolated places over Nagaland, Manipur, Mizoram & Tripura and heavy rain at isolated places over Assam & Meghalaya, 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.
- 19 May (Day 2): 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 3): 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 4): Thunderstorm accompanied with gusty winds very likely at isolated places over Sub Himalayan West Bengal & Sikkim.
- 22 May (Day 5): Thunderstorm accompanied with gusty winds very likely at isolated places over Sub Himalayan West Bengal & Sikkim.

Agricultural activities (AICRPAM-CRIDA)

Rajasthan

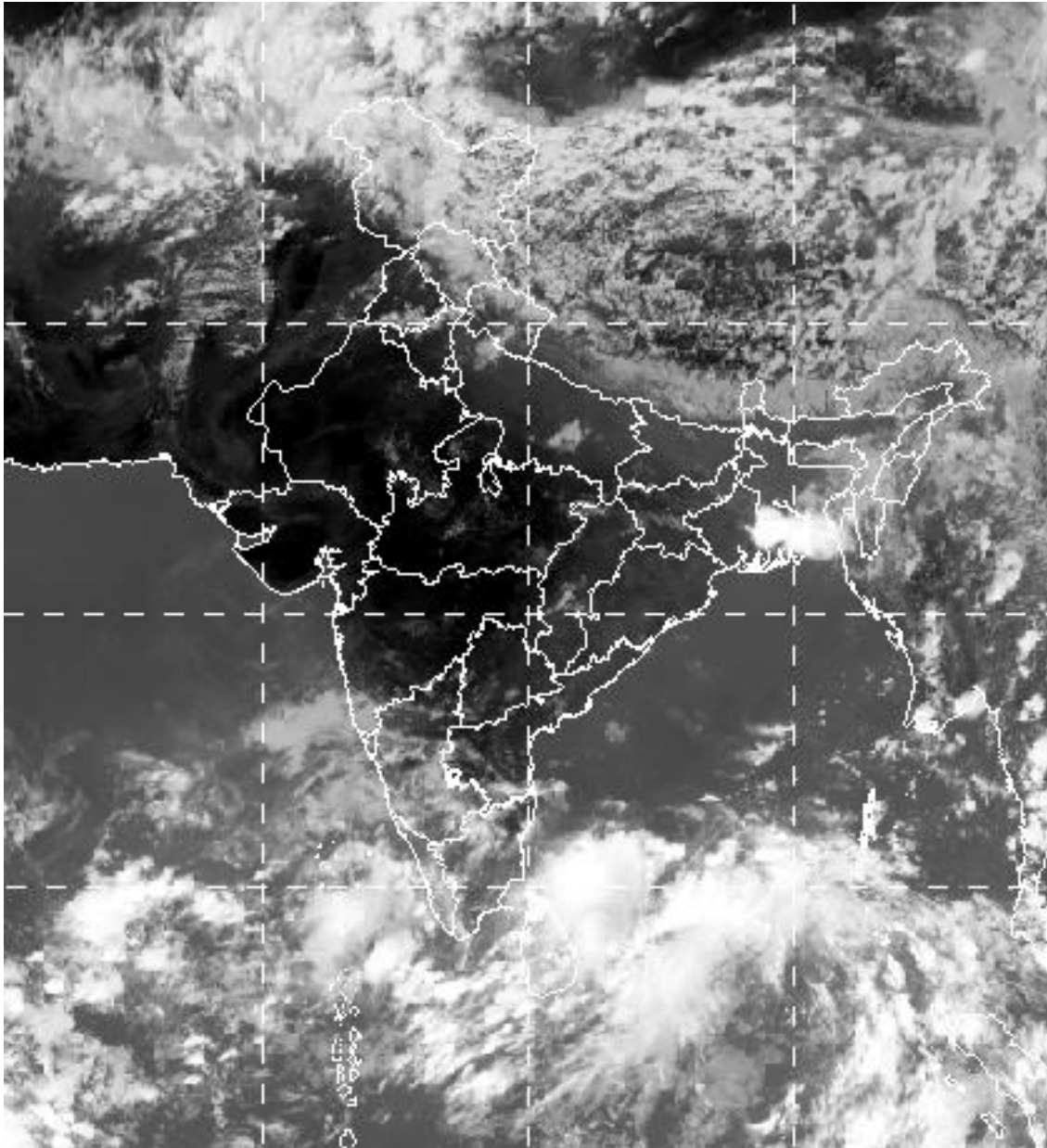
Weather condition

Gusty winds followed by hail storms were witnessed at some places in eastern Rajasthan during past few days. The maximum temperature ranged from 38.0 to 40.9 °C with mean value of 39.4°C which is 1.0 °C above the normal value. The minimum temperature ranged from 21.6 to 25.6°C with mean value of 23.7°C which is 0.0°C equal the normal value.

Contingency measure:

- After harvesting of mature okra, application of urea @ 5-10 kg/ acre should be done. Constant monitoring of crop against attack of mite is advised. If population is above ETL then, spraying of Ethion @ 1.5-2 ml/litre of water is advised. Due to prevailing high temperature, light irrigation at short interval is advised when sky is clear.
- Keeping in view of temperature, farmers are advised for light irrigation as per requirement in all vegetable and standing crops. Irrigation should be done in the morning hours or in the evening hours.

- For green manure, sowing of green gram, cluster bean, senai, gwar etc may be done during this week. Seed rate for sanai is 60-70 kilogram and that of dhaicha is 50-60 kilogram per hectare. For adequate germination proper moisture should be maintained. So sowing of fodder crops (gwar, maize, bajra, cluster bean) may be done during this week. Adequate moisture should be maintained for maximum germination of seeds. Sowing should be done at a depth of 3-4 cm and at row to row spacing of 25-30 cm.
- Field preparation should be done for sowing of pigeonpea and cotton in this week. Farmers are advised to procure good quality seeds from certified source.
- To control shoot and fruit borer in brinjal and tomato crops, infested fruits and shoots should be collected and buried inside the soil. If pest population is high, spraying of Spinosad 48 EC @ 1 ml /4 litres of water is advised when sky is clear.
- Optimum moisture level should be maintained in cucurbitaceous crops by light and frequent irrigation as dry conditions may lead to poor pollination and thus drop in yield of the crop.



**Figure: 1. Latest available satellite picture as on 17 May 2018 at 0230 Hrs (IST).
(Source: IMD).**