

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 03 May 2018

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Strong low level convergence, moisture incursion and presence of jet speed winds in the upper levels are providing conducive conditions for the occurrence of severe thunder squalls and heavy rainfall at isolated places over Gangetic West Bengal & Sikkim, Bihar and Odisha during next 2-3 days and over northeastern states during next 3-4 days. An approaching Western Disturbance is very likely to cause scattered to fairly widespread precipitation and isolated thunder squalls and Hail storms over Western Himalayan Region and isolated to scattered rainfall and thunder squalls over northern plains during next 24 hours. In view of the prevalence of strong easterly winds and another Western Disturbance, isolated thunder squall are likely to continue over Western Himalayan region during the subsequent period as well. Heat wave conditions are likely to prevail over parts of Rajasthan and Vidarbha during next 3-4 days and at one or two pockets over Madhya Maharashtra, Marathwada and West Madhya Pradesh during next 3 days.
- Yesterday, Heat wave conditions were observed one or two pockets of West Rajasthan and Vidarbha.
- Thunderstorm observed at a few places over Jammu Division of Jammu & Kashmir, Coastal Andhra Pradesh and at isolated places over Assam & Meghalaya, Punjab, Jharkhand, Himachal Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Chhattisgarh, Nagaland, Manipur, Mizoram & Tripura, Odisha, South Interior Karnataka, Kerala, Tamilnadu & Puducherry and West Bengal & Sikkim 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 Jammu & Kashmir, Uttarakhand, Himachal Pradesh, Punjab, Jharkhand, Chhattisgarh, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Kerala; at many places over Haryana, Chandigarh & Delhi, Uttar Pradesh and Gangetic West Bengal; at a few places over Andaman & Nicobar Islands, South Interior Karnataka and Coastal Andhra Pradesh; at isolated places over Bihar, Sub Himalayan West Bengal & Sikkim, Arunachal Pradesh, Vidharbha, East Rajasthan, Madhya Pradesh, Rayalaseema and Tamilnadu.

- Maximum temperature departures as on 02.05.2018: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Rajasthan; at isolated place over Madhya Maharashtra and Tamilnadu; above normal (1.6°C to 3.0°C) at most places over Vidarbha and Marathwada; at many places over Gujarat, West Madhya Pradesh and North Interior Karnataka; at a few places over East Madhya Pradesh, Konkan & Goa and Kerala; at isolated places over Jammu & Kashmir and South Interior Karnataka. They were markedly below normal (5.1°C or less) at isolated places over Sub Himalayan West Bengal & Sikkim; below appreciably normal (3.1°C to 5.0°C) at many places over Punjab, East Uttar Pradesh and Bihar; at a few place over Assam & Meghalaya and Gangetic West Bengal; at isolated places over West Uttar Pradesh; below normal (1.6°C to 3.0°C) at many place over Odisha; at a few places over Uttarakhand; at isolated place over Coastal Andhra Pradesh and near normal over rest of the country.
- Yesterday, the highest maximum temperature of 46.0°C recorded at Phalodi (West Rajasthan).
- Minimum temperature departures as on 03.05.2018: Minimum temperatures are above normal (1.6°C to 3.0°C) at most places over West Rajasthan; at many places over Saurashtra & Kutch; at a few places over East Rajasthan, West Madhya Pradesh, Gujarat Region, Telangana & Rayalaseema; at isolated places over Jammu & Kashmir, Vidarbha, Tamilnadu and Kerala. They are markedly below normal (5.1°C or Less) at isolated places over East Uttar Pradesh and East Madhya Pradesh; appreciably below normal (3.1°C to 5.0°C) at most places over Odisha and Jharkhand; at many places over Chhattisgarh; at a few places over Gangetic West Bengal and Coastal Andhra Pradesh; at isolated places over Himachal Pradesh and West Uttar Pradesh; below normal (1.6°C to 3.0°C) at a few places over Haryana, Chandigarh & Delhi; at isolated places over Nagaland, Manipur, Mizoram & Tripura, Tamilnadu & Puducherry and south Interior Karnataka and near normal over rest of the country.

Weather Warning during next 5 days (IMD)

- 03 May (Day 1): Thunderstorm accompanied with squall & hail very likely at isolated places over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Jharkhand and Odisha. Thunderstorm accompanied with squall very likely at isolated places over West Bengal & Sikkim, Uttar Pradesh and Bihar. Thunderstorm accompanied with gusty winds very likely at isolated places over Haryana, Chandigarh & Delhi, Punjab, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Telangana, south Interior Karnataka, interior Tamilnadu, north coastal Andhra Pradesh, Kerala and Lakshadweep. Heavy rain very likely at isolated places over Odisha, north Coastal Andhra Pradesh, Interior Tamilnadu and Kerala. Heat wave conditions very likely to prevail at some parts of West Rajasthan and at one or two pockets over East Rajasthan, West Madhya Pradesh, Vidarbha, north Madhya Maharashtra and Marathawada. Dust storm/ Thunderstorm at isolated places over West Rajasthan. Thundersquall with wind speed reaching 45 kmph occasionally are likely to occur along the coastal areas of West Bengal and Odisha. Fishermen are advised to be cautious while venturing into the sea over these areas.

- 04 May (Day 2): Thunderstorm accompanied with squall very likely at isolated places over Uttarakhand, West Bengal & Sikkim and Odisha. Thunderstorm accompanied with gusty winds very likely at isolated places over Jammu & Kashmir, Himachal Pradesh, Haryana, Chandigarh & Delhi, Punjab, Uttar Pradesh, Bihar, Jharkhand, East Rajasthan, Vidarbha, Chhattisgarh, Telangana, north coastal Andhra Pradesh, south Interior Karnataka, Interior Tamilnadu and Kerala. Heavy rain very likely at isolated places over Nagaland, Manipur, Mizoram & Tripura and South Interior Karnataka. Heat wave conditions very likely to prevail at some parts of West Rajasthan and at one or two pockets over East Rajasthan, Vidarbha, West Madhya Pradesh, north Madhya Maharashtra and Marathawada. Dust storm/ Thunderstorm at isolated places over West Rajasthan.
- 05 May (Day 3): Thunderstorm accompanied with squall very likely at isolated places over Jammu & Kashmir, Himachal Pradesh and Uttarakhand. Thunderstorm accompanied with gusty winds very likely at isolated places over Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Odisha and Kerala. Heavy rain very likely at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Heat wave conditions very likely to prevail at some parts of West Rajasthan and at one or two pockets over East Rajasthan.
- 06 May (Day 4): Thunderstorm accompanied with squall and hail very likely at isolated places over Jammu & Kashmir and Himachal Pradesh. Thunderstorm accompanied with gusty winds very likely at isolated places over Uttarakhand and Punjab. Heavy rain very likely at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- 07 May (Day 5): Thunderstorm accompanied with squall and hail very likely at isolated places over Himachal Pradesh. Thunderstorm accompanied with gusty winds very likely at isolated places over Jammu & Kashmir, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi and West Uttar Pradesh. Heavy rain very likely at isolated places over Assam & Meghalaya. Dust storm/ Thunderstorm at isolated places over West Rajasthan.
- The weather outlook for the period of seven days *i.e* 03 to 10 May 2018 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, Uttar Pradesh, East Rajasthan, Sub Himalayan West Bengal & Sikkim, Gangetic West Bengal, Bihar, Jharkhand, Madhya Pradesh, Chhattisgarh, Odisha, Vidharbha, Kerala, South Interior Karnataka, Coastal Andhra Pradesh Rayalaseema, Tamilnadu Andaman Islands and North eastern States. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

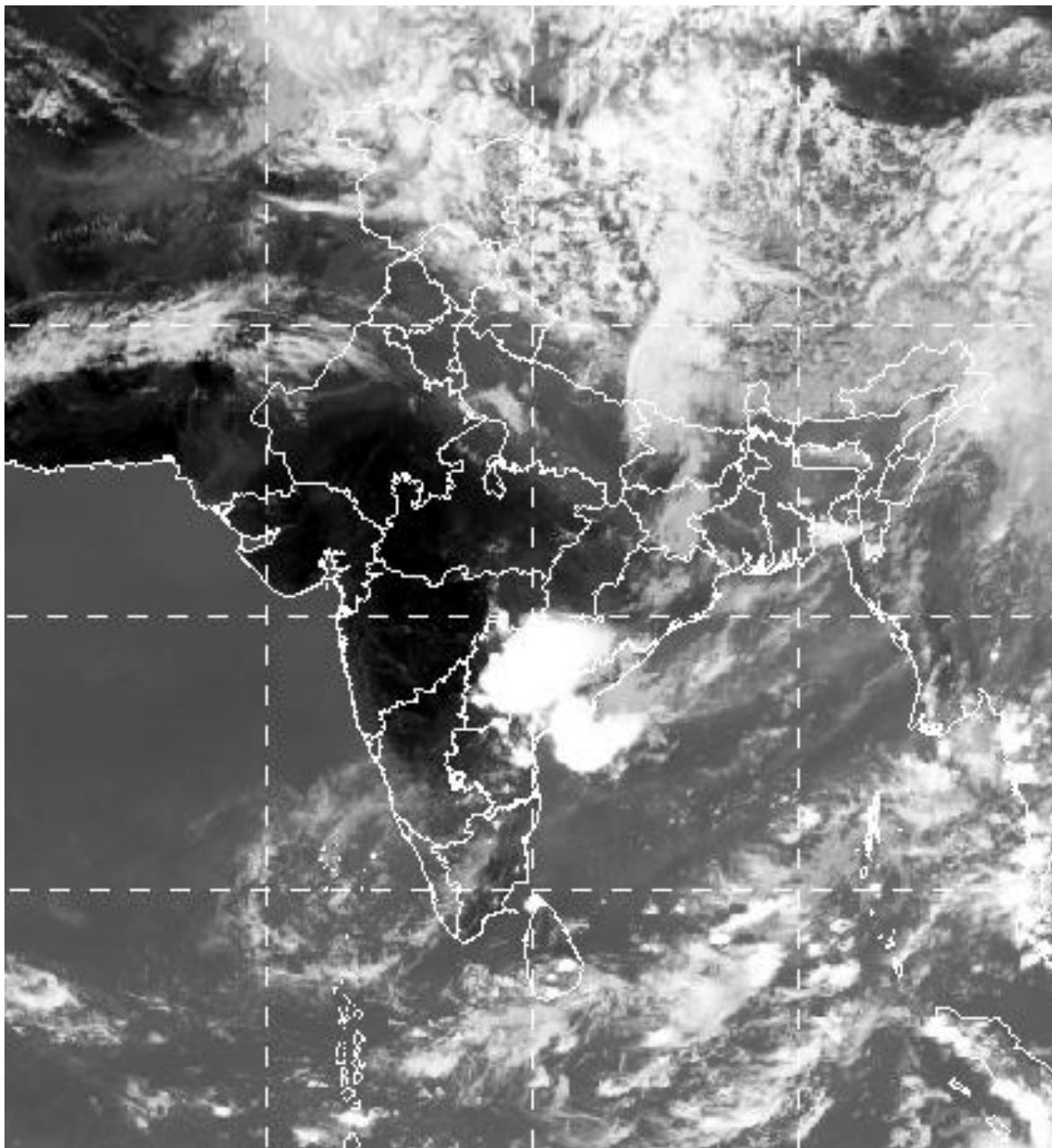
Western Uttar Pradesh

Weather condition

Dry weather prevailed over Western Uttar Pradesh state during this past few days. Both maximum and minimum temperatures are above normal by 1.0 to 2.0 °C.

Contingency measure:

- Wheat: Farmers are advised to harvest their crop and tying bundles immediate and threshing should be done during evening or early morning.
- Barley :Threshing and winnowing should be completed as earlier. Zaid maize: Irrigation and weeding. Pigeon pea: Harvest mature crop and threshing should be done.
- Gram: Threshing should be done. Zaid Urd: Light irrigation should be applied after 20 -25 days of sowing and weeding should be done at optimum moisture by hand hoe. Weeds should be used as mulch. Remove Mosaic infested plant and destroyed.Zaid Moong: Weeding should be done after 20 days of sowing. Light irrigation should be applied after 20 to 25 days of sowing.
- Sun flower: Weeding should be done and moisture should be maintained. Cross pollination should be done at morning through Muslin cloth wrapped hand.
- Brinjal / Chilies: Pick up mature fruits in standing crop. Light irrigation should be given at evening. Leafy Vegetable: Cutting , marketing , light irrigation should be given at evening.
- MP Chari / Mucchari /Pearl-millet: Sowing of SSG-988-898, PC-23 ,SSG-59 -3 and MP chari @ 30-40 kg seeds /ha. Light irrigation applied after 20 days of sowing. Sowing should be Pearl-millet varieties such as Raj-171, L-72 and L-74 done.
- Animal: To protect from heat waves and bathing should be done at morning and evening. Balanced diet should be given for milch animal and Vaccinate Foot and Mouth disease and concerned near Veterinary hospital in need.



**Figure: 1. Latest available satellite picture as on 03 May 2018 at 0230 Hrs (IST).
(Source: IMD).**

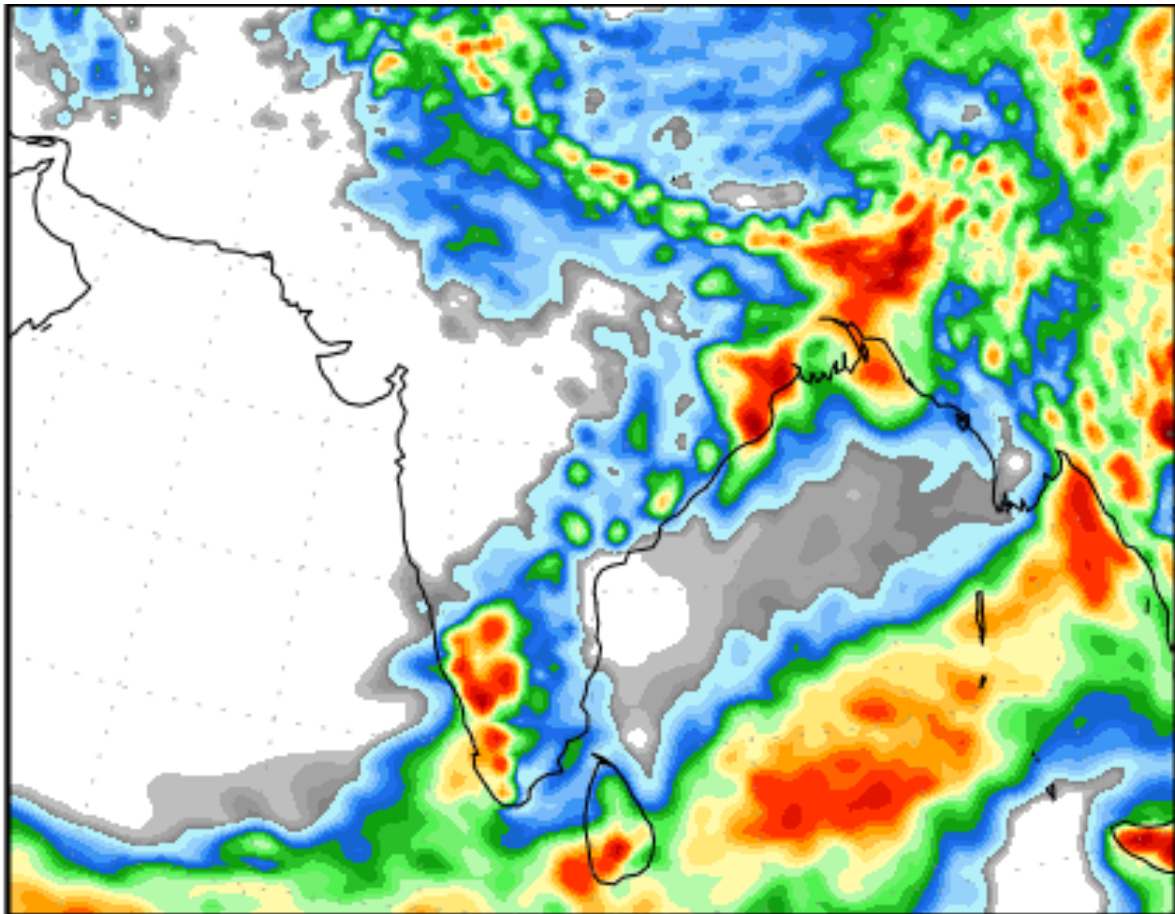


Figure: 2. Precipitation forecast for 03 to 10 May 2018 (Source: NOAA NCEP).