

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 02 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 parts of eastern India comprising Gangetic West Bengal , Bihar, Odisha and northeastern states during next 2 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 48 hours. Isolated thunder squall are likely to continue over Western Himalayan region during the subsequent period as well, in view of the prevalence of strong easterly winds and another Western Disturbance.
- Heat wave conditions are likely to prevail over parts of West Rajasthan and Vidarbha during next 4-5 days and at one or two pockets over Madhya Maharashtra and West Madhya Pradesh. during next 3 days.
- Yesterday, heat wave conditions observed in many parts of West Rajasthan and one or two pockets of East Rajasthan and Vidharbha.
- Thunderstorm observed at a few places over north Coastal Andhra Pradesh; at isolated places over Rajasthan, Jammu Division of Jammu & Kashmir, Himachal Pradesh, Bihar, Jharkhand, Chhattisgarh, Telangana, Coastal Andhra Pradesh, Kerala, Nagaland, Manipur, Mizoram & Tripura and Assam & Meghalaya from 0830 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 north Coastal Andhra Pradesh and Andaman Islands; at many places over Assam & Meghalaya, Sub Himalayan West Bengal & Sikkim and Arunachal Pradesh; at a few places over Chhattisgarh and Kerala; at isolated places over Himachal Pradesh, Uttarakhand, Bihar, Rajasthan, West Madhya Pradesh, West Uttar Pradesh, Odisha, south Coastal Andhra Pradesh, Rayalaseema and Tamilnadu & Puducherry.

- Maximum temperature departures as on 01.05.2018: Maximum temperatures were markedly above normal (5.1°C or more) at many places over Jammu & Kashmir; at a few places over West Rajasthan; appreciably above normal (3.1°C to 5.0°C) at most places over east Rajasthan; at many places over Himachal Pradesh; above normal (1.6°C to 3.0°C) at most places over Vidharbha, Madhya Maharashtra, Marathwada, North Interior Karnataka and Rayalaseema; at many places over Telangana; at a few places over Gujarat, Madhya Pradesh and Tamilnadu & Puducherry; at isolated places over Haryana, Chandigarh & Delhi, Kerala, south Coastal Andhra Pradesh and Coastal Karnataka. They were markedly below normal (5.1°C or less) at most places over Bihar; at a few places over East Uttar Pradesh and Sub Himalayan West Bengal & Sikkim; at isolated places over Odisha; below appreciably normal (3.1°C to 5.0°C) at many places over Gangetic West Bengal; at isolated places over West Uttar Pradesh and north Coastal Andhra Pradesh; below normal (1.6°C to 3.0°C) at a few places over Jharkhand & Chhattisgarh and near normal over rest of the country.
- The highest maximum temperature of 47.0°C recorded at Phalodi (West Rajasthan).
- Minimum temperature departures as on 02.05.2018: Minimum temperatures are markedly above normal (5.1°C or more) at isolated places over Punjab & West Rajasthan; appreciably above normal (3.1°C to 5.0°C) at many places over Jammu & Kashmir; at a few places over East Rajasthan; at isolated places over West Madhya Pradesh & Vidharbha; above normal (1.6°C to 3.0°C) at most places over Himachal Pradesh and Haryana, Chandigarh & Delhi; at many places over Uttarakhand & Coastal Karnataka; at a few places over Saurashtra & Kutch; at isolated places over East Madhya Pradesh & Gujarat region, Kerala and Tamilnadu & Puducherry. They are below normal (1.6°C to 3.0°C) at most places over Odisha and north Coastal Andhra Pradesh; at a few places over Chhattisgarh; at isolated places over Gangetic West Bengal and south Coastal Andhra Pradesh and near normal over rest of the country.

Weather Warning during next 5 days (IMD)

- 02 May (Day 1): Thunderstorm accompanied with squall and hail very likely at isolated places over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, West Bengal & Sikkim and Jharkhand. Thunderstorm accompanied with squall very likely at isolated places over Haryana, Chandigarh & Delhi, Punjab, West Uttar Pradesh, Odisha, Bihar, Assam & Meghalaya and Mizoram & Tripura. Thunderstorm accompanied with gusty winds very likely at isolated places over East Uttar Pradesh, east Rajasthan, east Madhya Pradesh, Chhattisgarh, Vidharbha, Coastal Andhra Pradesh, Telangana, Rayalaseema, interior Tamilnadu, Kerala, South Interior Karnataka and Lakshadweep. Heavy rain very likely at isolated places over Gangetic West Bengal, Odisha and north interior Tamilnadu. Heat wave conditions very likely to prevail at some parts of West Rajasthan; one or two pockets over East Rajasthan, West Madhya Pradesh, Vidharbha and Madhya Maharashtra. 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.
- 03 May (Day 2): Thunderstorm accompanied with squall and hail very likely at isolated places over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Sub Himalayan West Bengal

& Sikkim and Jharkhand. Thunderstorm accompanied with squall very likely at isolated places over Gangetic West Bengal, Uttar Pradesh and Odisha. Thunderstorm accompanied with gusty winds very likely at isolated places over Haryana, Chandigarh & Delhi, Punjab, East Rajasthan, Bihar, Chhattisgarh, Coastal Andhra Pradesh, Telangana, Rayalaseema, interior Tamilnadu and Kerala. Heavy rain very likely at isolated places over Odisha and Assam & Meghalaya. Heat wave conditions very likely to prevail at some parts of West Rajasthan and Vidharbha and at one or two pockets over East Rajasthan, West Madhya Pradesh and Madhya Maharashtra. 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 3): Thunderstorm accompanied with squall and hail very likely at isolated places over Uttarakhand. Thunderstorm accompanied with squall very likely at isolated places over Jammu & Kashmir, Himachal Pradesh and Jharkhand. Thunderstorm accompanied with gusty winds very likely at isolated places over East Uttar Pradesh, West Bengal & Sikkim, Odisha, Coastal Andhra Pradesh, South Interior Karnataka, interior Tamilnadu and Kerala. Heavy rain very likely at isolated places over Manipur. Heat wave conditions very likely to prevail at some parts of West Rajasthan and Vidharbha and at one or two pockets over East Rajasthan, West Madhya Pradesh and Madhya Maharashtra.
- 05 May (Day 4): Thunderstorm accompanied with squall and hail very likely at isolated places over Jammu & Kashmir and Himachal Pradesh. Thunderstorm accompanied with squall very likely at isolated places over Uttarakhand, South Interior Karnataka and Tamilnadu. Thunderstorm accompanied with gusty winds very likely at isolated places over Kerala. Heavy rain very likely at isolated places over Assam & Meghalaya, Mizoram & Tripura, South Interior Karnataka and north interior Tamilnadu. Heat wave conditions very likely to prevail at some parts of West Rajasthan and Vidharbha.
- 06 May (Day 5): Thunderstorm accompanied with squall very likely at isolated places over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, South Interior Karnataka and Tamilnadu. Thunderstorm accompanied with gusty winds very likely at isolated places over Punjab. Heavy rain very likely at isolated places over Assam & Meghalaya, Mizoram & Tripura, South Interior Karnataka and north interior Tamilnadu. Heat wave conditions very likely to prevail at some parts of West Rajasthan and Vidharbha.
- The weather outlook for the period of seven days i.e 02 to 09 May 2018 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thundershower may occur over Himachal Pradesh, Uttarakhand, Sub Himalayan West Bengal & Sikkim, Bihar, Rajasthan, West Uttar Pradesh, West Madhya Pradesh, Odisha, Chhattisgarh, Coastal Andhra Pradesh, Rayalaseema, Kerala, Tamilnadu & Puducherry and Andaman Islands and North eastern States. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

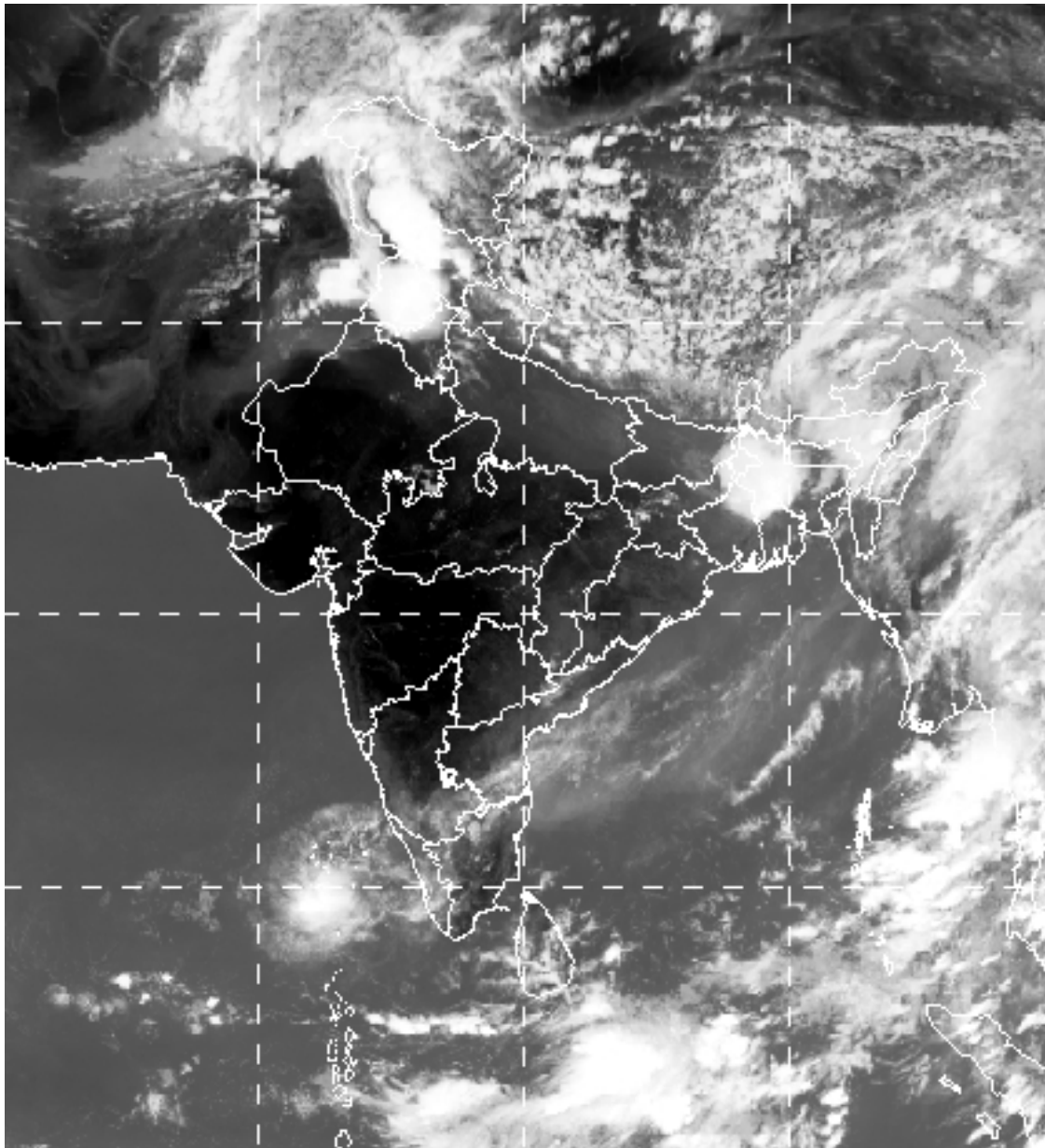
Eastern Uttar Pradesh

Weather condition

Dry weather prevailed over Eastern Uttar Pradesh state during this past few days. Both maximum and minimum temperatures are above normal.

Contingency measure:

- Looking dry weather, farmers are advised for harvesting and threshing of wheat crop very soon
- Irrigation may be given in sugarcane, moong and Zaid vegetables. If the farmers have already given the irrigation, then under optimum moisture, intercultural operation may be done in the standing crops like sugarcane, moong, zaid vegetables.
- Summer ploughing in fallow field as to increase the water retention capacity of the soil and also to destroy the weeds. Leveling bunding, irrigation/drainage channel can be made for reclamation of usar/alkaline soil.
- Farmers are advised to ensure and keep the seeds of Dhaincha for green manuring. There is possibility of fruit drops in citrus, hence advised to spray 2,4 D @ 1ppm solution.



**Figure: 1. Latest available satellite picture as on 02 May 2018 at 0230 Hrs (IST).
(Source: IMD).**

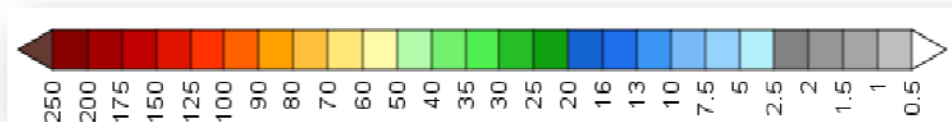
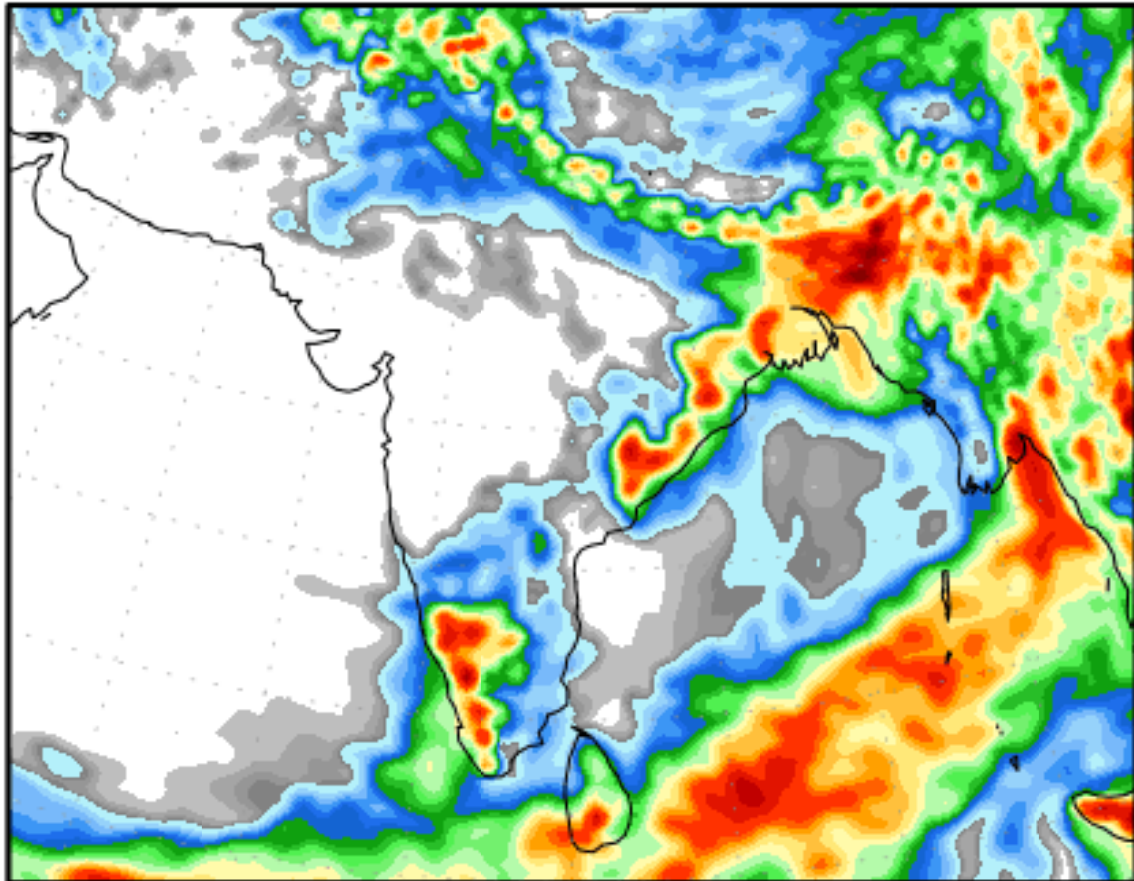


Figure: 2. Precipitation forecast for 02 to 05 May 2018 (Source: NOAA NCEP).