

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 27 April 2018

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A fresh Western Disturbance is likely to cause isolated to scattered precipitation over Western Himalayan region and isolated rainfall over northern plains from today. Isolated Dust storms/ Thunderstorms are likely over plains of northwest India from today.
- Another Western Disturbance likely to affect Western Himalayan region from 01st May onwards.
- Heat wave conditions are likely at one or two pockets over West Rajasthan and Vidarbha during next 48 hours and at some parts over Rajasthan and East Madhya Pradesh during remaining forecast period.
- Day maximum temperatures are likely to remain above 40°C over parts of West and Central India and adjoining eastern India and parts of Telangana, Rayalaseema and Interior Tamilnadu.
- Heavy rain observed at isolated places over Andaman & Nicobar Islands .
- Yesterday, Heat wave conditions were observed at some parts of Himachal Pradesh; at isolated places over Vidarbha.
- Thunderstorm observed at isolated places over Assam & Meghalaya, Tripura, Odisha, Gangetic West Bengal, Telangana, Tamilnadu & Puducherry 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 at most places over Gangetic West Bengal; at many places over Kerala; at a few places over Sub Himalayan West Bengal, Nagaland, Manipur, Mizoram & Manipur and at isolated places over Assam & Meghalaya, Odisha, Chhattisgarh, South Interior Karnataka, Tamilnadu & Puducherry and Andaman & Nicobar Islands.
- Maximum temperature departures as on 26.04.2018: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Jammu & Kashmir,

Himachal Pradesh and Punjab; at a few places over Haryana, Chandigarh & Delhi, West Rajasthan; above normal (1.6°C to 3.0°C) at many places over Tamilnadu & Puducherry and Kerala; at a few places over Arunachal Pradesh, Assam & Meghalaya, Gangetic West Bengal, East Rajasthan, Madhya Pradesh, Vidarbha, Saurashtra & Kutch, North Interior Karnataka, Coastal Karnataka and Andaman & Nicobar Islands; They were markedly below normal (5.1°C or less) at a few places over Sub Himalayan West Bengal & Sikkim and Bihar and near normal over rest of the country.

- Yesterday, the highest maximum temperature of 45.1°C was recorded at Chandrapur (Vidarbha) over the plains of the country.
- Minimum temperature departures as on 27.04.2018: Minimum temperatures are above normal (1.6°C to 3.0°C) at many places over Jammu & Kashmir, Rajasthan; at a few places over Himachal Pradesh, Punjab, Uttarakhand, Gujarat, West Madhya Pradesh and Tamilnadu & Puducherry; They are markedly below normal (5.1°C or less) at a few places over Gangetic West Bengal; below normal (1.6°C to 3.0°C) at many places over Konkan & Goa, Madhya Maharashtra, Vidarbha, East Madhya Pradesh, Odisha and Chhattisgarh and near normal over rest of the country.

Weather Warning during next 5 days (IMD)

- 27 April (Day 1): Thunderstorm accompanied with squall and hail very likely at isolated places over Sub Himalayan West Bengal & Sikkim. Thunderstorm accompanied with squall very likely at isolated places over Uttarakhand, Jharkhand, Gangetic West Bengal, Arunachal Pradesh and Assam & Meghalaya. Thunderstorm accompanied with gusty winds very likely at isolated places over East Uttar Pradesh, Bihar, Odisha, Nagaland, Manipur, Mizoram & Tripura, Telangana and South Interior Karnataka. Duststorm/thunderstorm very likely at isolated places over Punjab, Haryana, Chandigarh & Delhi and West Uttar Pradesh. Heat wave conditions very likely to prevail some places over Himachal Pradesh; in one or two pockets over Jammu & Kashmir, Uttar Pradesh, Rajasthan and Vidarbha. Heavy rain very likely at isolated places over Andaman & Nicobar Islands, Tamilnadu & Puducherry and Kerala.
- 28 April (Day 2): Thunderstorm accompanied with squall very likely at isolated places over Uttarakhand, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm accompanied with gusty winds very likely at isolated places over East Uttar Pradesh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, South Interior Karnataka, Tamilnadu & Puducherry and Kerala. Duststorm/thunderstorm very likely at isolated places over West Uttar Pradesh. Heat wave conditions very likely to prevail in some places over Rajasthan; in one or two pockets over Vidarbha. Heavy rain very likely at isolated places over Andaman & Nicobar Islands.
- 29 April (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 East Uttar Pradesh, Bihar, Jharkhand, Sub Himalayan West Bengal & Sikkim and Odisha. Heat wave conditions very likely to prevail in some places over Rajasthan and Vidarbha; in one or two pockets over West Madhya Pradesh. Heavy rain very likely at

isolated places over Andaman & Nicobar Islands, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

- 30 April (Day 4): Thunderstorm accompanied with squall likely at isolated places over Bihar, Jharkhand and Gangetic West Bengal. Heat wave conditions likely to prevail some places over Rajasthan, East Madhya Pradesh and Vidarbha; in one or two pockets over West Madhya Pradesh. Heavy rain likely at isolated places over West Bengal & Sikkim, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- 01 May (Day 5): Thunderstorm accompanied with squall likely at isolated places over Bihar and Jharkhand. Heat wave conditions likely to prevail some places over Rajasthan, East Madhya Pradesh and Vidarbha; in one or two pockets over West Madhya Pradesh. Heavy rain likely at isolated places over West Bengal & Sikkim and Assam & Meghalaya.
- The weather outlook for the period of seven days *i.e* 27 April to 04 May 2018 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thundershower may occur over Gangetic West Bengal, Sub Himalayan West Bengal, Odisha, Chhattisgarh, South Interior Karnataka, Kerala, Tamilnadu & Puducherry, Andaman & Nicobar Islands and North eastern States. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

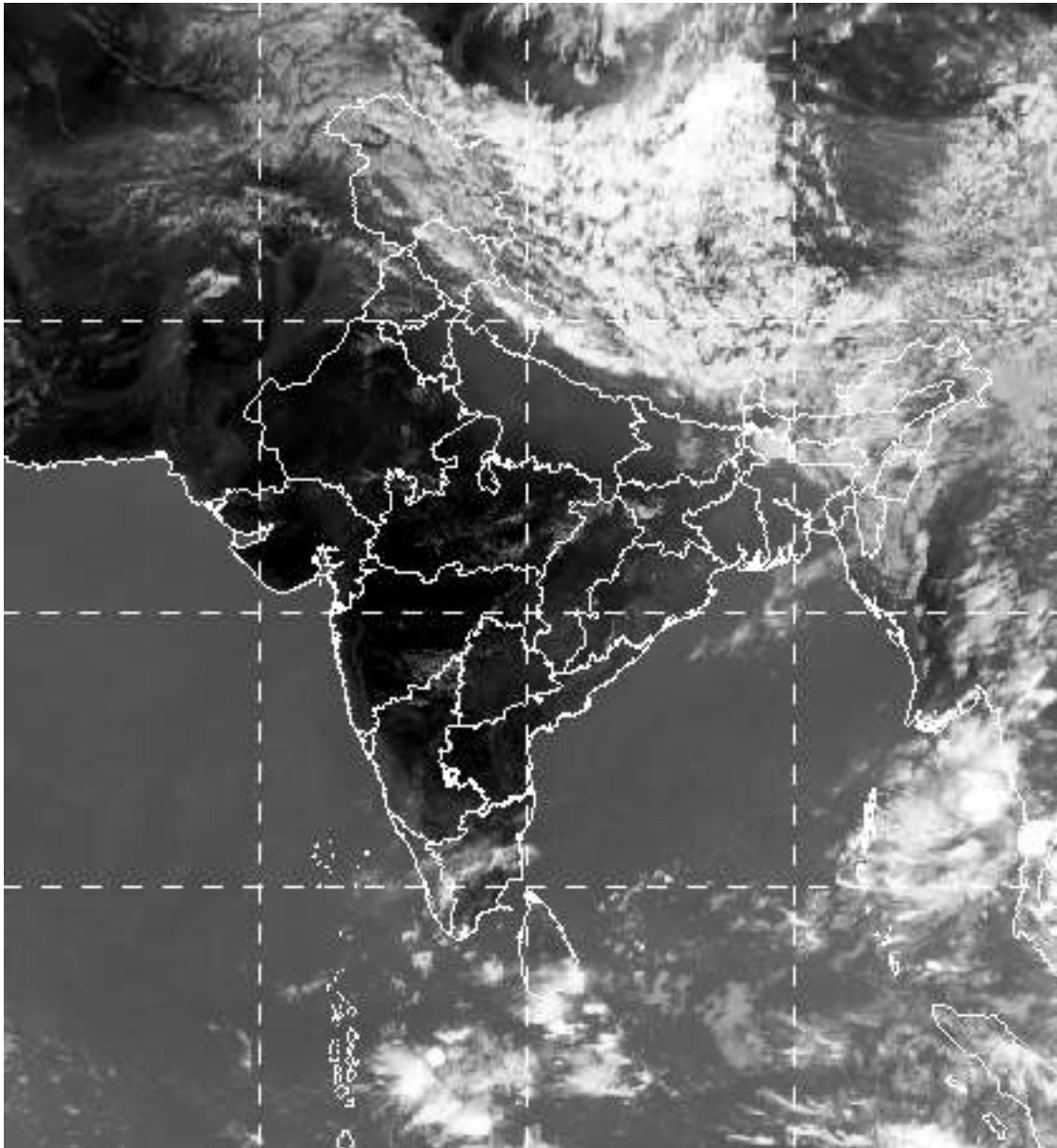
Rajasthan

Weather condition

Hot and dry weather observed in Rajasthan state during this past few days. The maximum temperature ranged from 35.5 to 38.5 °C with mean value of 37.4°C which is 0.8 °C above the normal value. The minimum temperature ranged from 14.6 to 24.0 °C with mean value of 19.2 °C which is 0.7 °C below the normal value.

Contingency measure:

- Harvesting of wheat and barley should be completed and collected at open field for drying and kept for 5 to 6 days for threshing. In groundnut, this time formation of aerial pegs so irrigation should be applied.
- Due to rise in temperature, attack of insect and pest is very low, so no use of any chemical insecticides. When crop are harvested and field are empty, they should be done deep summer ploughing. Soil sample should be collect from each plot and test in laboratory.
- Due to rise in temperature, transpiration rate will be increased, so, maintaining for proper moisture, irrigation should be applied at 5 to 6 days intervals. In bitter gourd, watermelon and cucurbits crops to control of fruit fly spray Malathion 30 EC 1ml in 1 liter water solution..



**Figure: 1. Latest available satellite picture as on 27 April 2018 at 0230 Hrs (IST).
(Source: IMD).**

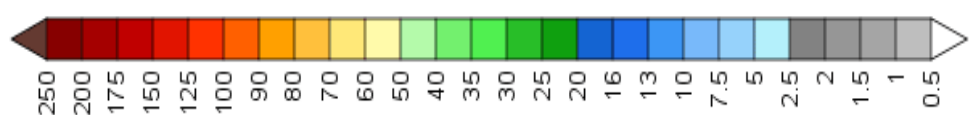
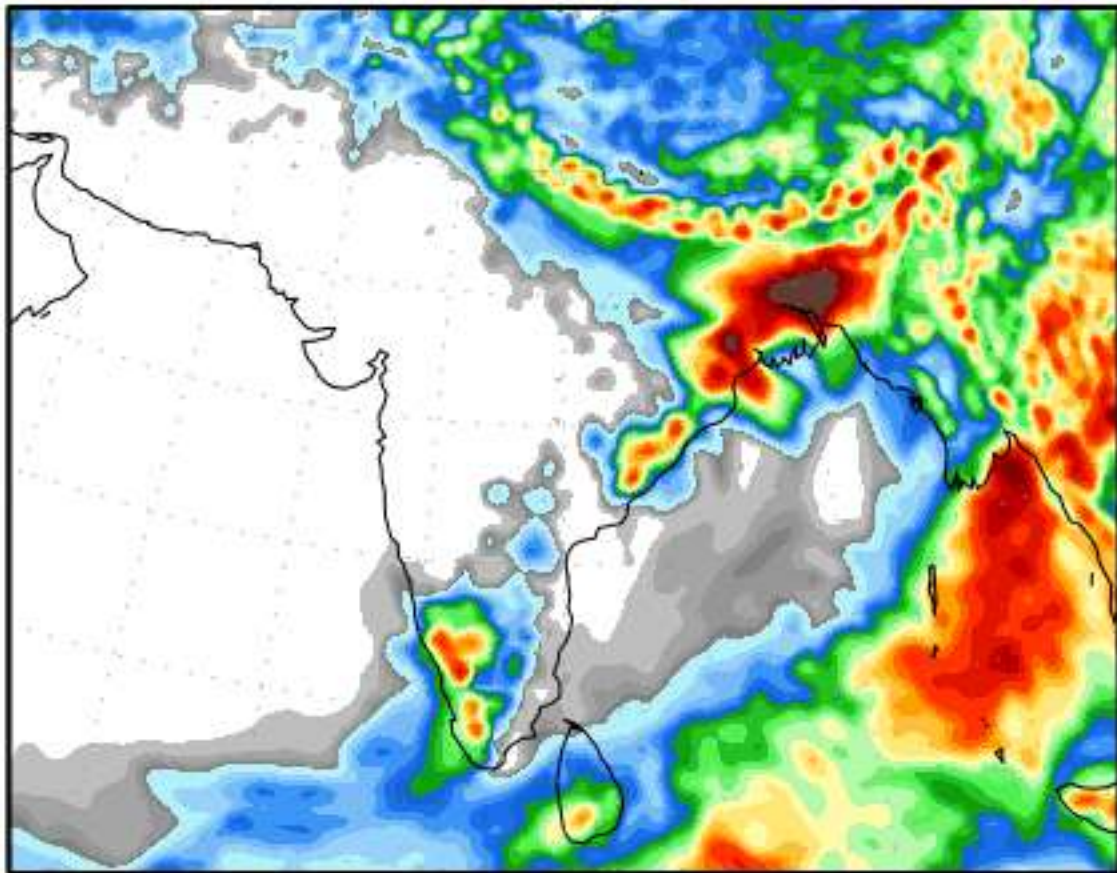


Figure: 2. Precipitation forecast for 27 April to 04 May 2018 (Source: NOAA NCEP).