

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 05 May 2018

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A fresh Western Disturbance is likely to affect northwest India and its interaction with lower level winds is likely to cause isolated thunder squalls and hailstorms over Western Himalayan Region and thunderstorms, thunder squalls over northern plains during 6th to 9th May.
- Isolated dust storms are likely to continue over parts of Rajasthan during the forecast period.
- Conducive conditions for isolated thunder squalls and heavy rainfall prevails over northeast India and over south Peninsula during next 3-5 days.
- Thunderstorm observed at isolated places over Jammu Division of Jammu & Kashmir, East Rajasthan, Chhattisgarh, Jharkhand, Sub Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Kerala, North Interior Karnataka and Tamilnadu & Puducherry 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 Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Andaman & Nicobar Islands; at many places over Sub Himalayan West Bengal & Sikkim; at a few places over Tamilnadu & Puducherry and at isolated places over Jammu & Kashmir, Himachal Pradesh, East Madhya Pradesh, East Rajasthan, Chhattisgarh, Jharkhand, Odisha, Gangetic West Bengal, North Interior Karnataka and Kerala.
- Maximum temperature departures as on 04.05.2018: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at few places over Madhya Maharashtra; at isolated places over Assam & Meghalaya; above normal (1.6°C to 3.0°C) at many places over West Rajasthan, Saurashtra & Kutch, Konkan & Goa; at a few places over East Rajasthan, Madhya Pradesh, Coastal Karnataka; at isolated places over Himachal Pradesh, Vidarbha and Kerala. They were markedly below normal (5.1°C or less) at many places over Sub Himalayan West Bengal & Sikkim; at a few places over West Uttar Pradesh; appreciably

below normal (3.1°C to 5.0°C) at most places over Bihar; at many places over East Uttar Pradesh; at a few places over Telangana and at isolated places over Rayalaseema and Tamilnadu & Puducherry and below normal (1.6°C to 3.0°C) at many places over Jharkhand, Odisha, Coastal Andhra Pradesh; at a few places over Uttarakhand, Haryana, Chandigarh & Delhi and at isolated places over South Interior Karnataka and near normal over rest of the country.

- Yesterday, the highest maximum temperature of 45.0°C recorded at Phalodi (West Rajasthan).
- Minimum temperature departures as on 05.05.2018: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at many places over Rajasthan; at isolated places over Madhya Pradesh, Gujarat and Punjab; above normal (1.6°C to 3.0°C) at many places over North Interior Karnataka; at a few places over Himachal Pradesh, Madhya Maharashtra, Coastal Karnataka, Gangetic West Bengal and at isolated places over Marathwada, Vidarbha, Odisha, West Uttar Pradesh and Haryana, Chandigarh & Delhi. They are below normal (1.6°C to 3.0°C) at a few places over West Uttar Pradesh and at isolated places over Tamilnadu & Puducherry and near normal over rest of the country.

Weather Warning during next 5 days (IMD)

- 05 May (Day 1): Thunderstorm accompanied with gusty winds very likely at isolated places over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Jharkhand, Gangetic West Bengal, Assam & Meghalaya, Tripura, Rayalaseema, South Interior Karnataka, Tamilnadu & Puducherry and Kerala. Heavy rain very likely at isolated places over Assam & Meghalaya and Tripura. Dust storm very likely at isolated places over West Rajasthan; Dust storm/thunderstorm very likely at isolated places over East Rajasthan.
- 06 May (Day 2): Thunderstorm accompanied with squall very likely at isolated places over Sub Himalayan West Bengal & Sikkim. Thunderstorm accompanied with gusty winds very likely at isolated places over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Gangetic West Bengal, Odisha, Assam & Meghalaya, Tripura, Tamilnadu & Puducherry and Kerala. Heavy rain very likely at isolated places over Assam & Meghalaya and Tripura. Dust storm very likely at isolated places over Rajasthan.
- 07 May (Day 3): Thunderstorm accompanied with squall and hail very likely at isolated places over Himachal Pradesh. Thunderstorm accompanied with squall very likely at isolated places over Jammu & Kashmir, Punjab, Haryana, Chandigarh & Delhi and Sub Himalayan West Bengal & Sikkim. Thunderstorm accompanied with gusty winds very likely at isolated places over Uttarakhand and Kerala. Heavy rain very likely at isolated places over Assam & Meghalaya and Tripura. Heat wave conditions likely at one or two pockets over Vidarbha.
- 08 May (Day 4): Thunderstorm accompanied with squall and hail very likely at isolated places over Himachal Pradesh and Uttarakhand. Thunderstorm accompanied with squall likely at isolated places over Jammu & Kashmir, Punjab and Haryana, Chandigarh & Delhi. Thunderstorm accompanied with gusty winds likely at isolated places over Uttar Pradesh,

South Interior Karnataka, Tamilnadu and Kerala. Heavy rain very likely at isolated places over Tamilnadu, South Interior Karnataka and Kerala. Dust storm/ Thunderstorm at isolated places over West Rajasthan. Heat wave conditions likely at one or two pockets over Vidarbha.

- 09 May (Day 5): Thunderstorm accompanied with squall likely at isolated places over Bihar. Thunderstorm accompanied with gusty winds very likely at isolated place over East Uttar Pradesh, South Interior Karnataka and Kerala. Heavy rain very likely at isolated places over Tamilnadu, South Interior Karnataka and Kerala. Dust storm at isolated places over West Rajasthan.
- The weather outlook for the period of seven days *i.e* 05 to 12 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, Himachal Pradesh, Sub Himalayan West Bengal & Sikkim, Gangetic West Bengal, East Rajasthan, Chhattisgarh, Jharkhand, East Madhya Pradesh, Odisha, Tamilnadu & Puducherry, North Interior Karnataka, Kerala, Andaman Islands and North eastern States. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Tamil Nadu

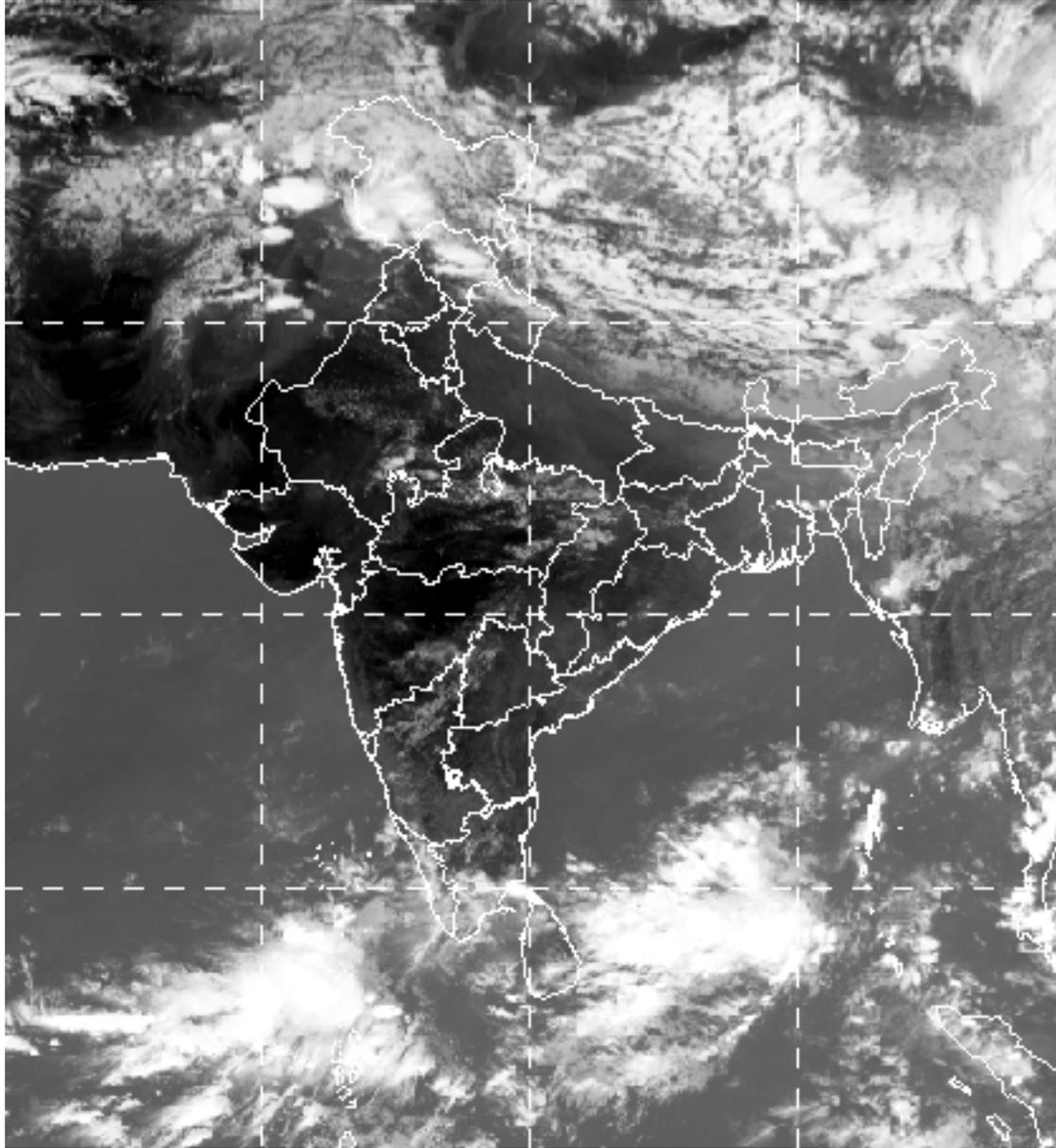
Weather condition

Dry weather prevailed in Tamil Nadu state during this past few days. Maximum temperature was 2.0°C below normal and the minimum temperature was 3.1°C above normal.

Contingency measure:

- Farmers are advised to go for mulching to preserve the soil moisture for the crop growth. General: Summer ploughing is advised to improve the infiltration rate of soil as well as to control the weed growth by utilizing the unexpected rainfall during summer months.
- Green manure crop: Raise green manure crop by using unexpected rainfall during summer months. Wind & temperature - High wind speed and hot days expected in coming days.
- Farmers are advised to do propping for Banana. For irrigated crops, wind speed will increase evaporation loss. Hence, regular interval of irrigation may be given to avoid heat stress. Bunch development stage. Use transparent polyethylene sleeves with 4% ventilation to cover the bunch immediately after opening of last hand to blemish free fruits with uniform size and quality. Prevailing weather condition is favorable for stem weevil incidence. Spraying of Monocrotophos 36 WSC @1 ml/ lit of water.
- Rice: The right stage for harvesting is when about 80% panicles have 80 % ripened spike lets and their upper portion is straw colored. The grain contains about 20% of moisture.

- Flower crop: Maligai, prevailing weather is favorable for bud worm incidence. to control the spray any one of the chemical Thiochlorid (Alanto) 240SC @ 1 ml/litre or Spinosad (Tracer) @ 0.5 ml/lit or Spray Profenophos 25EC @ 2 ml/lit or Spray neem seed kernel extract 5 %.
- Animal Husbandry: In order to mitigate the effect of high temperature on animals provide adequate cool drinking water and green fodder and spray water on gunny bags surrounding the cattle shed. Vaccine for foot and mouth disease to the cattle is advised as prophylactic measure by utilizing the facility from nearby veterinary hospital.



**Figure: 1. Latest available satellite picture as on 05 May 2018 at 0230 Hrs (IST).
(Source: IMD).**

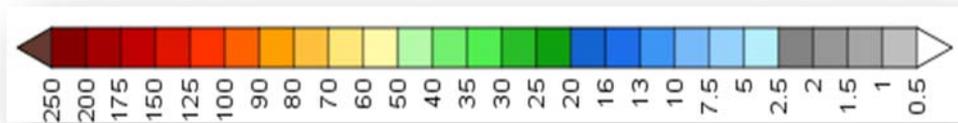
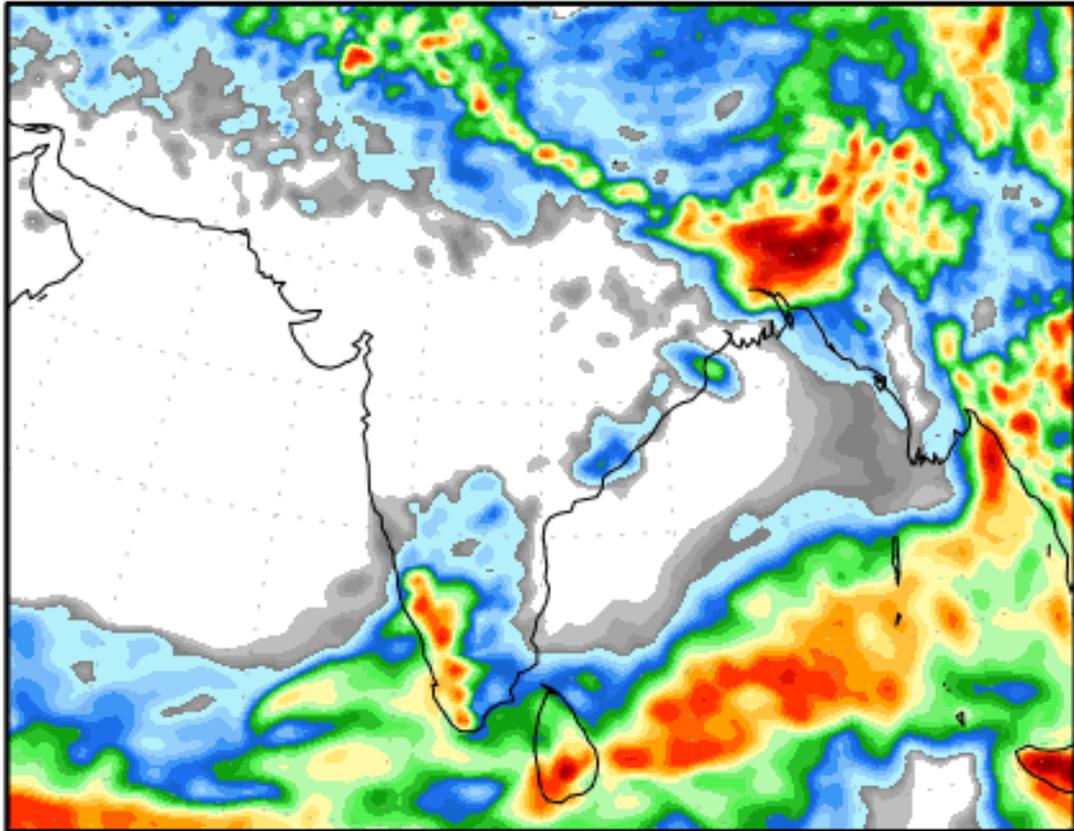


Figure: 2. Precipitation forecast for 05 to 12 May 2018 (Source: NOAA NCEP).