

# **All India Coordinated Research Project on Agrometeorology**

## **CRIDA, Santoshnagar, Hyderabad – 500 059**

### **Daily Crop Weather Information as on 07 May 2018**

**Attention: Rajiv Maheshwari, OSD, ICAR**

#### **Significant Weather Features (IMD)**

- Under the influence of a Western Disturbance; a cyclonic circulation over Haryana and a west east trough from northwest Rajasthan to central Madhya Pradesh in lower levels, thunderstorm accompanied with gusty winds and moderate squall (speed between 50 to 70 kmph) is very likely at isolated places over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi and West Uttar Pradesh during next 48 hours. Hailstorm is also likely at isolated places over Jammu & Kashmir, Himachal Pradesh and Uttarakhand during the same period.
- Maximum temperatures very likely to remain in the range of 40-44°C over Rajasthan, Gujarat, Madhya Pradesh, Interior Maharashtra and over some parts of Telangana, Rayalaseema and interior Odisha during next 2 days.
- Thunderstorm observed at a few places over Jammu & Kashmir; at isolated places over Himachal Pradesh, Punjab, Chandigarh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Kerala, Coastal Karnataka, North Interior Karnataka and Tamilnadu from 0830 hours IST of yesterday to 0830 hours IST of today.
- Yesterday, Heat wave observed at one or two pockets over Vidarbha.
- 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, Himachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Andaman & Nicobar Islands; at many places over Punjab and Arunachal Pradesh; at a few places over Kerala and at isolated places over Uttarakhand, Sub Himalayan West Bengal & Sikkim, Bihar, Odisha, Chhattisgarh, Vidarbha, Madhya Maharashtra, Telangana, Coastal & Interior Karnataka and Tamilnadu & Puducherry.
- Maximum temperature departures as on 06.05.2018: Maximum temperatures were above normal (3.1°C to 5.0°C) at most places over West Madhya Pradesh, Vidarbha, Madhya Maharashtra and Marathwada; at many places over Jharkhand, East Madhya Pradesh and Saurashtra & Kutch; at a few places over East Rajasthan, Konkan & Goa and Coastal

Karnataka. They were markedly below normal ( 5.1°C or Less) at a few places over Himachal Pradesh and Punjab; appreciably below normal (3.1°C to 5.0°C) at a few places over Jammu & Kashmir; below normal (1.6°C to 3.0°C) at most places over Sub Himalayan West Bengal & Sikkim; at many places over Haryana, Chandigarh & Delhi; at a few places over Assam & Meghalaya and Bihar; at isolated places over East Uttar Pradesh, South Interior Karnataka and Tamilnadu and near normal over rest of the country.

- Yesterday, the highest maximum temperature of 45.1°C was recorded at Khargone (West Madhya Pradesh) and Bramhapuri & Akola (Vidarbha).
- Minimum temperature departures as on 07.05.2018: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at many places over Jharkhand; at a few places over Vidarbha; at isolated places over Chhattisgarh and Telangana; above normal (1.6°C to 3.0°C) at most places over west Bengal & Sikkim ; at many places over Madhya Maharashtra; at a few places over Rajasthan, Uttar Pradesh, West Madhya Pradesh, Marathwada and Konkan & Goa; at isolated places over Assam & Meghalaya, East Madhya Pradesh and Karnataka. They are below normal (1.6°C to 3.0°C) at a few places over Jammu & Kashmir, Himachal Pradesh and Lakshadweep; at isolated places over Punjab, Haryana, Chandigarh & Delhi, Gujarat region, Coastal Andhra Pradesh and Tamilnadu & Puducherry and near normal over rest of the country.

#### **Weather Warning during next 5 days (IMD)**

- 07 May (Day 1): Thunderstorm accompanied with squall (wind speed reaching 50-70 kmph) and hail very likely at isolated places over Jammu & Kashmir, Himachal Pradesh and Uttarakhand. Thunderstorm accompanied with squall (wind speed reaching 50-70 kmph) very likely at isolated places over Punjab, Haryana, Chandigarh & Delhi, Bihar, Assam & Meghalaya, Gangetic West Bengal and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm accompanied with gusty winds very likely at isolated places over West Uttar Pradesh, Jharkhand, Sub Himalayan West Bengal & Sikkim, Odisha, Telangana, North Interior Karnataka, Tamilnadu and Kerala. Thunderstorm accompanied with Dust storm very likely at isolated places over Rajasthan. Dust storm very likely at isolated places over north West Madhya Pradesh. Heavy rain very likely at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Heat wave conditions likely at one or two pockets over Vidarbha and West Madhya Pradesh.
- 08 May (Day 2): Thunderstorm accompanied with squall (wind speed reaching 50-70 kmph) and hail very likely at isolated places over Himachal Pradesh and Uttarakhand. Thunderstorm accompanied with squall (wind speed reaching 50-70 kmph) very likely at isolated places over Jammu & Kashmir, Haryana, Chandigarh & Delhi, West Uttar Pradesh and Sub Himalayan West Bengal & Sikkim. Thunderstorm accompanied with gusty winds very likely at isolated places over Punjab, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Bihar, West Madhya Pradesh, East Uttar Pradesh and East Rajasthan, Coastal & South Interior Karnataka, Tamilnadu and Kerala. Heavy rain very likely at isolated places over Tamilnadu, South Interior Karnataka and Kerala. Heat wave conditions likely at one or two pockets over Vidarbha.

- 09 May (Day 3): Thunderstorm accompanied with squall (wind speed reaching 50-70 kmph) and hail very likely at isolated places over Sub Himalayan West Bengal & Sikkim. Thunderstorm accompanied with squall (wind speed reaching 50-70 kmph) very likely at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm accompanied with gusty winds very likely at isolated places over South Interior Karnataka. Heavy rain very likely at isolated places over Assam & Meghalaya. Heat wave conditions likely at one or two pockets over Vidarbha.
- 10 May (Day 4): Thunderstorm accompanied with squall (wind speed reaching 50-70 kmph) very likely at isolated places over Gangetic West Bengal. Heat wave conditions likely at one or two pockets over Vidarbha and Rajasthan.
- 11 May (Day 5): Heavy rain very likely at isolated places over South Interior Karnataka and Tamilnadu. Heat wave conditions likely at one or two pockets over Vidarbha and Rajasthan.
- The weather outlook for the period of seven days *i.e* 07 to 14 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, Uttarakhand, Punjab, Sub Himalayan West Bengal & Sikkim, Bihar, Odisha, Chhattisgarh, Vidarbha, Madhya Maharashtra, Telangana, Coastal & Interior Karnataka, Kerala, Tamilnadu & Puducherry, Andaman Islands and North eastern States. (Fig. 2).

## **Agricultural activities (AICRPAM-CRIDA)**

### **South Karnataka**

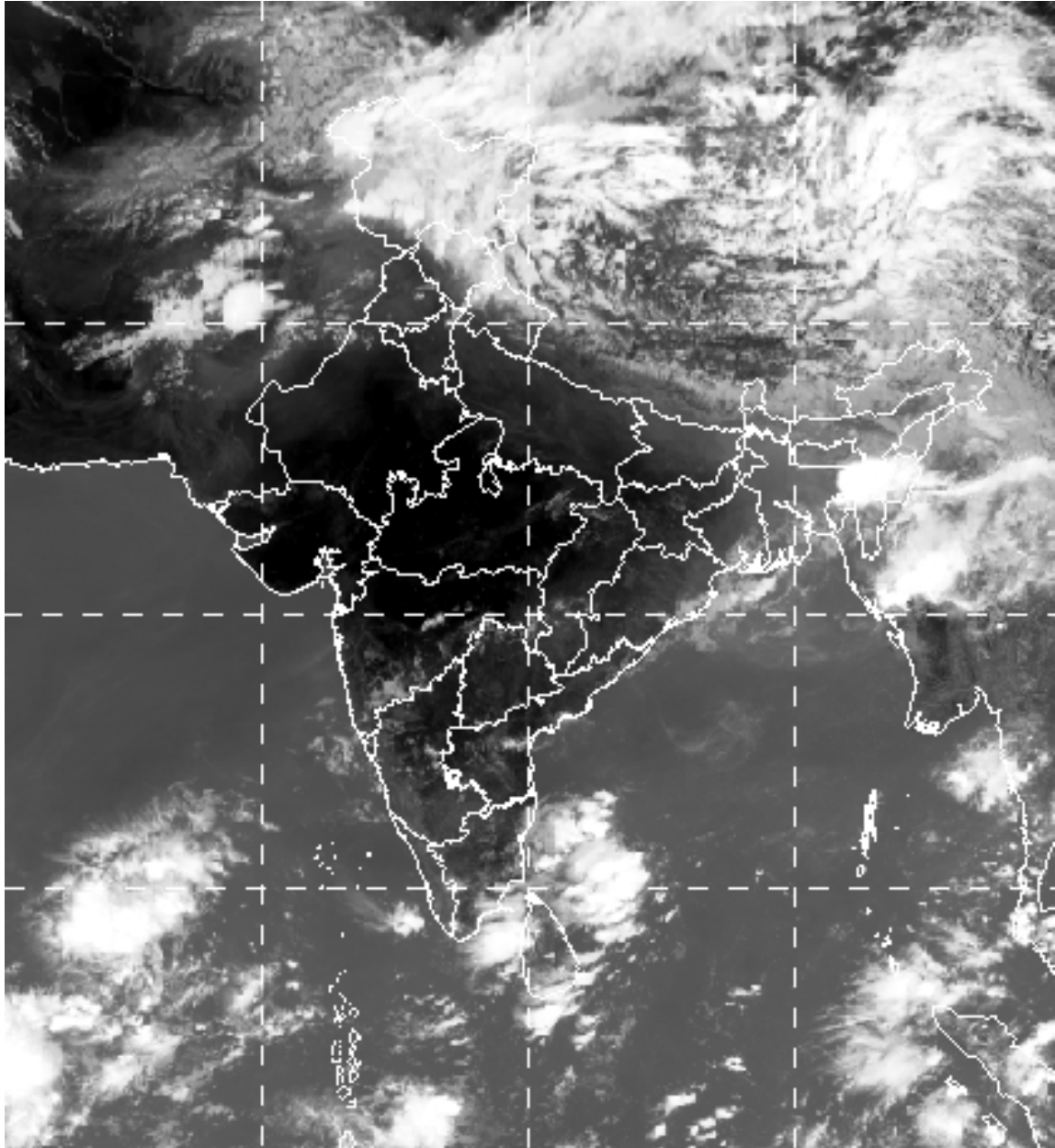
#### **Weather condition**

Light rainfall received in south Karnataka region during the past few days. State actual rainfall was 5.0 mm as against the normal of 14.0 mm with (-) 65 % deviation.

#### **Contingency measure:**

- Take up land preparation and strengthen the bund with fodder grass which will facilitate conservation of rainwater due to pre-monsoon showers. Ploughing across the slope will make insitu soil moisture conservation. Ideal time for sowing for pre-monsoon crop sowing wherever sufficient soil moisture available in field/land. Taken up summer plough to expose the soil to kill the different stages of insect and weeds.
- Under double cropping the short duration crops of first crop are as follows: Sesamum : Navile-1, T-7 Cowpea: TVX-944, KBC-1, Green gram: PS-16, PDM-84, 178 Field bean: HA 1, 2, 3 & 4. Groundnut : TMV-2, JL-24, KCG-6, Black gram: Karagao-3, T-9, Rashmi (LBG-625) Crop residues other than cattle feed may be used for compost making instead of burning.

- Mango In mango, due to heavy downpour of rain in thunderstorm fruit drop have been observed in mango consequently fruit fly damage is also noticed. suitable control measure by spraying Carbaryl 4 g/litre of water.
- Animal Husbandry Dairy Livestock management during summer: Silage, hay and crop residues may be used for cattle feed when shortage of green fodder. Apply 4-6 inch thick thatch as a roofing material. Water can be used for spraying the floor and roof of shelter ☐ Periodically water spray during peak hot hours lowers the temperature and consequently reduces the heat load on animals Proper ventilation should be maintained for free circulation of air in the sheds Clean drinking water be provided to animals and water troughs should be regularly cleaned Drinking water of 60 lts. of water/day/animal is required. Animals may be allow for grazing early in morning or later in evening..



**Figure: 1. Latest available satellite picture as on 07 May 2018 at 0230 Hrs (IST).  
(Source: IMD).**

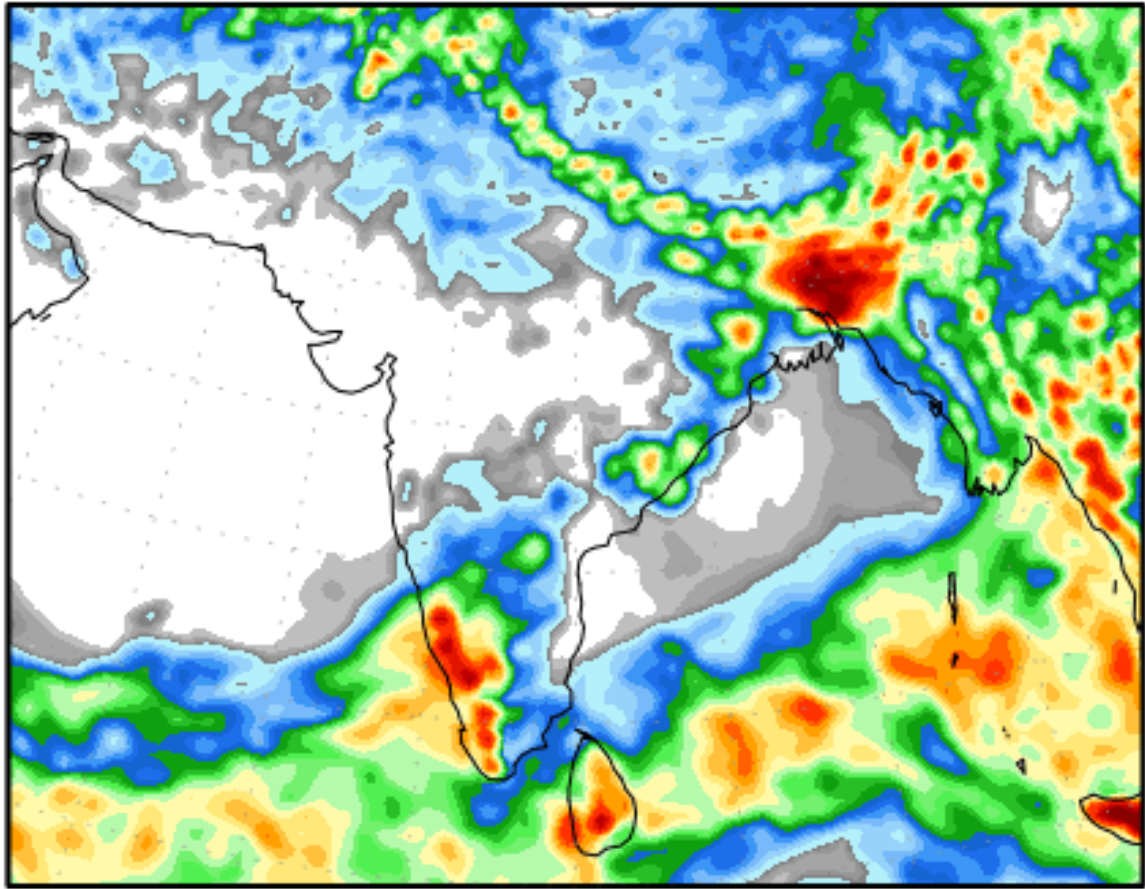


Figure: 2. Precipitation forecast for 07 to 14 May 2018 (Source: NOAA NCEP).