

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

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

### **Daily Crop Weather Information as on 28 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 adjoining plains during next 2-3 days.
- Day maximum temperatures are likely to remain above 40°C over parts of plains of northwest, west, central and adjoining east India and parts of Telangana, Rayalaseema and Interior Tamilnadu during next 3-4 days.
- Heat wave conditions are likely at one or two pockets over West Rajasthan, Madhya Maharashtra and Vidarbha during next 24 hours and at some parts over Rajasthan, Madhya Pradesh and Vidarbha during next 2-3 days.
- Yesterday, heat wave conditions were prevailing at one or two pockets over Vidarbha.
- Thunderstorm observed at a few places over Jammu Division of Jammu & Kashmir, Uttarakhand and Kerala and at isolated places over Himachal Pradesh, Tamilnadu & Puducherry, Gangetic West Bengal, Odisha and Jharkhand 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 many places over Gangetic West Bengal and Andaman & Nicobar Islands; at a few places over Himachal Pradesh, Jharkhand, north Odisha and Kerala; at isolated places over Uttarakhand, Assam & Meghalaya, Sub Himalayan West Bengal & Sikkim and Nagaland, Manipur, Mizoram & Tripura.
- Maximum temperature departures as on 27.04.2018: Maximum temperatures were markedly above normal (5.0°C or more) at isolated places over West Rajasthan; appreciably above normal (3.1°C to 5.0°C ) at most places over Jammu & Kashmir; at a few places over Himachal Pradesh; at isolated places over Assam & Meghalaya and Arunachal Pradesh; above normal (1.6°C to 3.0°C ) at most places over East Rajasthan and Telangana; at many places over Madhya Maharashtra; at a few places over Punjab, Madhya Pradesh, Vidharbha and Coastal Karnataka; at isolated places over Saurashtra & Kutch, Kerala and Tamilnadu &

Puducherry. They were appreciably below normal (3.1°C to 5.0°C) at isolated places over West Bengal & Sikkim; below normal (1.6°C to 3.0°C) at most places over East Uttar Pradesh and Bihar; at isolated places over West Uttar Pradesh, Odisha and Nagaland, Manipur, Mizoram & Tripura and near normal over rest of the country.

- The highest maximum temperature of 46.5°C recorded at Churu (West Rajasthan) over the plains of the country.
- Minimum temperature departures as on 28.04.2018: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at most places over West Rajasthan; at many places over East Rajasthan; at a few places over Punjab and Haryana, Chandigarh & Delhi; at isolated places over West Madhya Pradesh and Madhya Maharashtra; above normal (1.6°C to 3.0°C) at a few places over Jammu & Kashmir, Uttarakhand, Gujarat and North Interior Karnataka; at isolated places over Assam & Meghalaya. Tamilnadu & Puducherry and Andaman & Nicobar Islands. They are appreciably below normal (3.1°C to 5.0°C) at a few places over Gangetic West Bengal; at isolated places over north Odisha; below normal (1.6°C to 3.0°C) at a few places over Jharkhand; at isolated places over East Madhya Pradesh and near normal over rest of the country.

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

- 28 April (Day 1): Thunderstorm accompanied with squall and hail very likely at isolated places Assam & Meghalaya and thunderstorm accompanied with squall over Uttarakhand, Jharkhand, Gangetic West Bengal and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm accompanied with gusty winds very likely at isolated places over East Uttar Pradesh, Bihar, Sub Himalayan West Bengal & Sikkim, Odisha, north Coastal Andhra Pradesh, Lakshadweep, Tamilnadu & Puducherry and Kerala. Duststorm/thunderstorm very likely at isolated places over West Uttar Pradesh. Heat wave conditions very likely to prevail in one or two pockets over Rajasthan, Madhya Maharashtra and Vidarbha.
- 29 April (Day 2): Thunderstorm accompanied with gusty winds very likely at isolated places over East Uttar Pradesh, Bihar, Jharkhand, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, West Bengal & Sikkim, Odisha, Tamilnadu & Puducherry and Kerala. Duststorm/thunderstorm very likely at isolated places over West Uttar Pradesh. Heat wave conditions very likely to prevail in one or two pockets over Rajasthan, West Madhya Pradesh, Madhya Maharashtra and Vidarbha. Heavy rain likely at isolated places over West Bengal & Sikkim, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- 30 April (Day 3): Thunderstorm accompanied with squall and hail very likely at isolated places over Sub Himalayan West Bengal; Thunderstorm accompanied with squall very likely at isolated places over Bihar and Gangetic West Bengal and thunderstorm accompanied with gusty winds very likely at isolated places over Uttar Pradesh and Jharkhand, Heat wave conditions very likely to prevail in one or two pockets over Rajasthan and West Madhya Pradesh; in some pockets over Vidarbha. Heavy rain likely at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

- 01 May (Day 4): Thunderstorm accompanied with squall likely at isolated places over Bihar, Jharkhand, Odisha and Gangetic West Bengal and thunderstorm accompanied with gusty winds very likely at isolated places over Uttar Pradesh and Sub Himalayan West Bengal & Sikkim. Heat wave conditions likely to prevail in some pockets over Vidarbha. Heavy rain likely at isolated places over Assam & Meghalaya and Gangetic West Bengal.
- 02 May (Day 5): Thunderstorm accompanied with squall likely at isolated places over Bihar, Jharkhand and Odisha and thunderstorm accompanied with gusty winds very likely at isolated places over Uttar Pradesh. Duststorm/thunderstorm very likely at isolated places over Rajasthan. Heavy rain likely at isolated places over Gangetic West Bengal.
- The weather outlook for the period of seven days *i.e* 28 April to 05 May 2018 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thundershower may occur over Uttarakhand, Himachal Pradesh, Gangetic West Bengal, Sub Himalayan West Bengal & Sikkim, Jharkhand, north Odisha, Kerala, Andaman & Nicobar Islands and North eastern States. (Fig. 2).

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

### **Punjab**

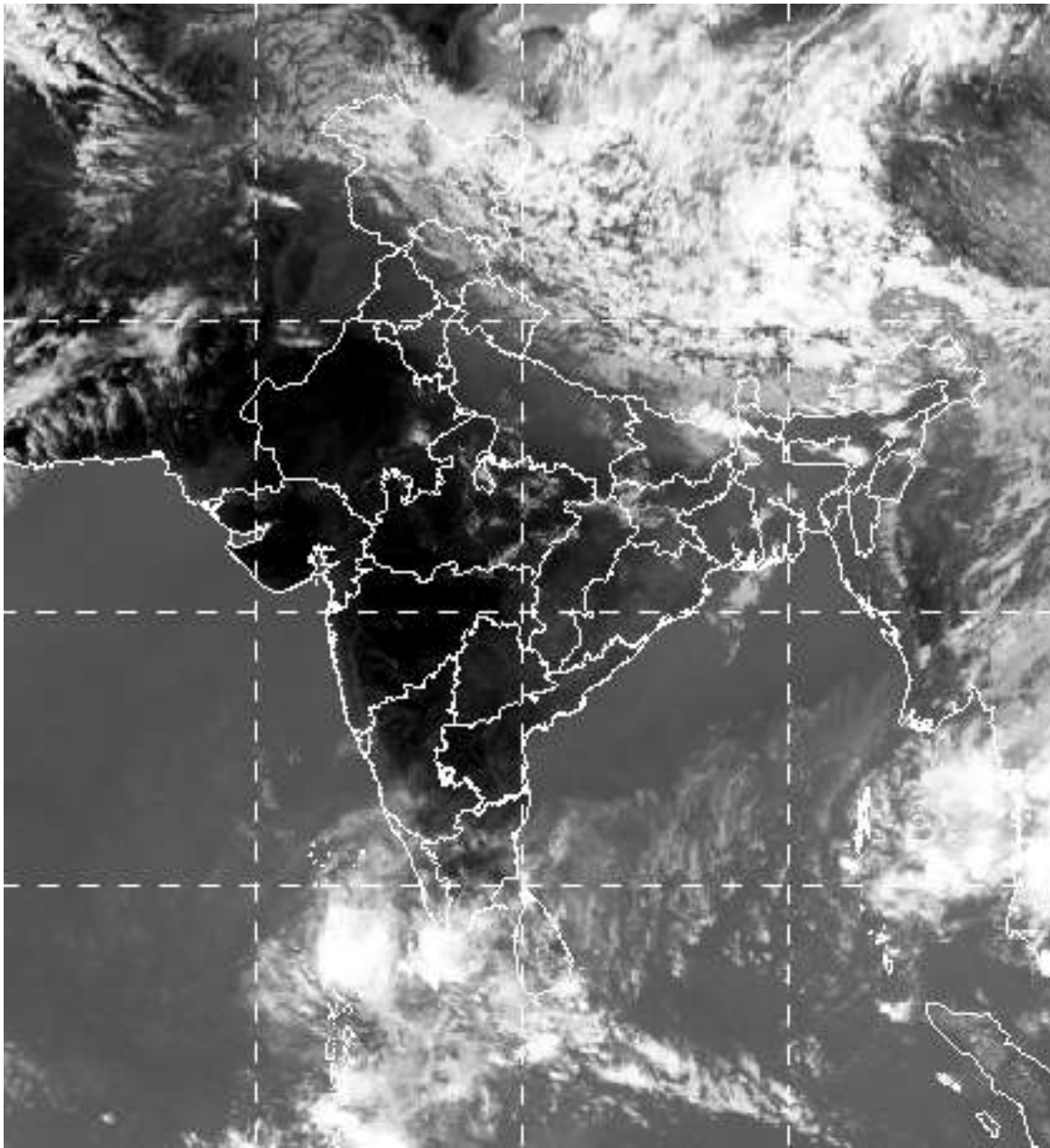
#### **Weather condition**

Dry weather prevailed over Punjab state during this past few days. The maximum temperature during the week ranged between 35.4 to 37.0 °C and minimum temperature ranged between 16.2 to 24.0 °C.

#### **Contingency measure:**

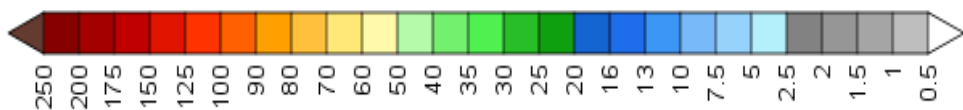
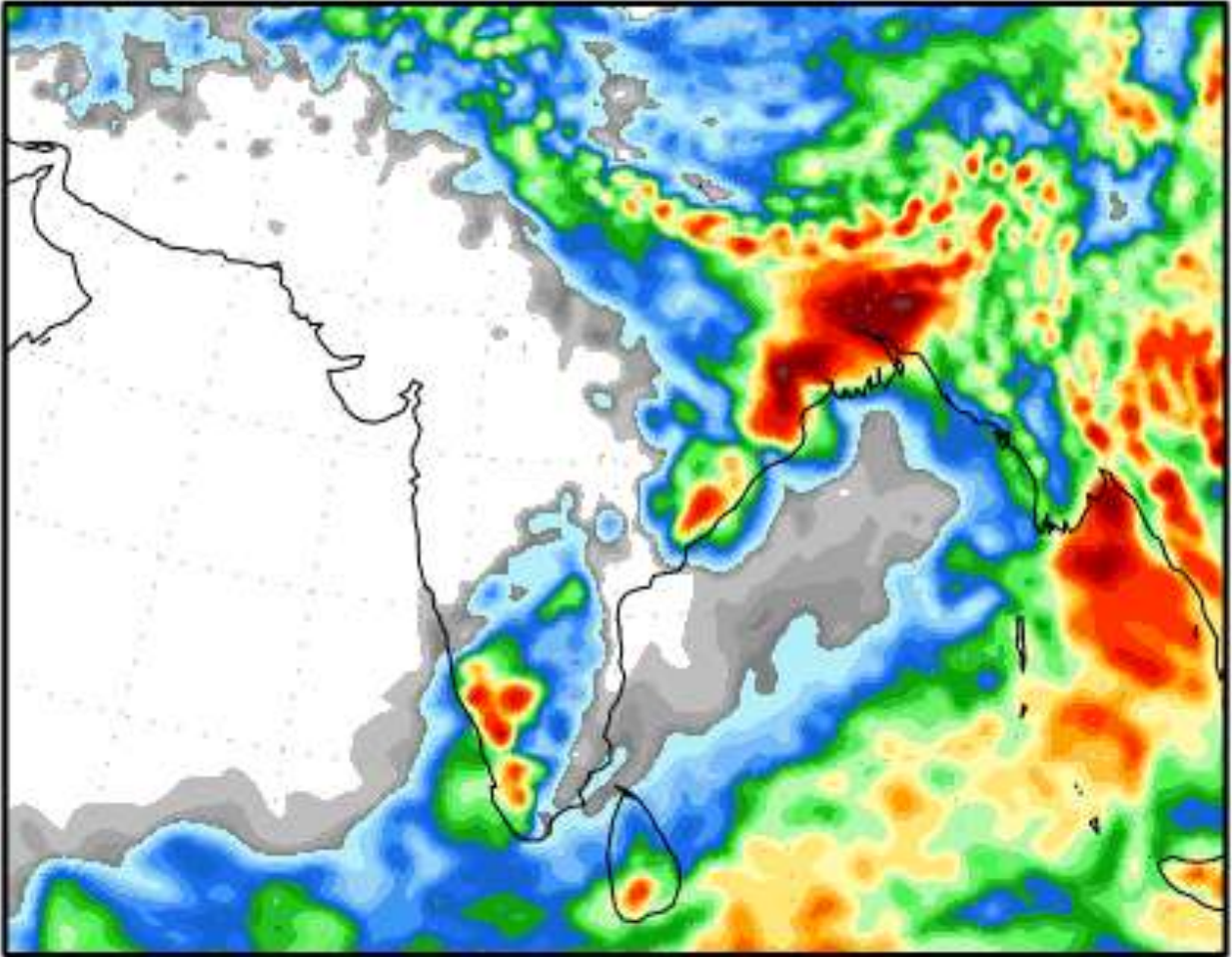
- Complete harvesting and threshing of crops as soon as possible. In wheat crop, the ear heads of Phalaris minor (gulli danda) plants should be removed/ cut with the sickle or any other method, before they produce viable seeds. The adoption of this practice will significantly decrease Phalaris minor (gulli danda) in next season wheat crop.
- For the management of early shoot borer in sugarcane, apply 10 kg granules of Regent/Mortel/Rippen 0.3 G (fipronil) before the setts are covered with soil by planking or use Tricho-cards having 20,000 eggs of *Corcyra cephalonica* parasitized (seven days old) by *Trichogramma chilonis* per acre at 10 days interval.
- Complete sowing of summer moong during the period. ? Onion thrips should be checked by spraying 250 ml Malathion 50 EC in 80 litres of water per acre. Do not spray during the 7 days before harvest.
- As weather is becoming congenial for downy mildew of muskmelon during these days, give 3-4 spray Indofil M-45/ Kavach and give 2 sprays of Ridomil MZ @ 500 g or Aliette @ 600 g per acre in 200 litres of water at 10 days interval.

- Fruit borer attack in tomato crop can be checked by spraying 30 ml of Fame 480 SL or 600 ml of Carina 50 EC or Coragen 18.5 SC @ 60 ml per acre or 100 ml of Sumicidin 20 EC in 100 litres of water per acre. Observe waiting period of 3 days after the spray of Fame. ? To protect the tomato crop from early blight spray the crop with Indofil M-45 @ 600 g/acre in 200 litres of water.
- For management of fruit drop in citrus spray Bavistatin 1.0g or Tilt 1.0g or Ziram 2.5 g per liter of water and for thrips in citrus, spray of Fosmite 50 EC @ 2.0 ml per liter water can be done.



**Figure: 1. Latest available satellite picture as on 28 April 2018 at 0230 Hrs (IST).  
(Source: IMD).**





**Figure: 2. Precipitation forecast for 28 April to 05 May 2018 (Source: NOAA NCEP).**