

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

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

### **Daily Crop Weather Information as on 22 April 2019**

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

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

- A low pressure area is likely to develop over Equatorial Indian Ocean and adjoining southwest Bay of Bengal to the southeast of Sri Lanka around 25th April. It is likely to intensify into a depression during subsequent 48 hours. It is very likely to move northwestwards towards Tamilnadu coast across east coast of Srilanka.
- Isolated thunderstorms with gusty wind (wind speed reaching 50-60 kmph) likely over Coastal Andhra Pradesh and Tamilnadu during next 24 hours.
- Heat wave conditions are likely in isolated pockets over Vidarbha, Madhya Pradesh and Rajasthan from 24th onwards.
- The images showing the latest satellite picture in figure. 1.

#### **Main Weather Observations (IMD)**

- Rain/Thundershowers observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at most places over Gangetic West Bengal; at many places over Odisha and Sub-Himalayan West Bengal & Sikkim; at a few places over Uttarakhand, Jharkhand and Assam & Meghalaya and at isolated places over Arunachal Pradesh, Jammu & Kashmir, East Rajasthan, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh, Telangana, Rayalaseema, Tamilnadu & Puducherry and Kerala. Thunderstorms observed at a few places over Gangetic West Bengal and at isolated places over Jammu & Kashmir, Uttarakhand, East Rajasthan, Jharkhand, Odisha, Coastal Andhra Pradesh, Rayalaseema, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya from 0830 IST hours of yesterday to 0830 IST hours of today.
- Maximum temperature departures as on 21.04.2019: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Arunachal Pradesh and Jammu & Kashmir ; above normal (1.6°C to 3.0°C) at a few places over Nagaland, Manipur, Mizoram & Tripura, Saurashtra & Kutch, Konkan & Goa and Coastal Karnataka and at isolated places over Assam & Meghalaya, Gujarat Region, Gangetic West Bengal, Odisha, Coastal Andhra Pradesh and Tamilnadu &

Puducherry. They were below normal (-1.6°C to -3.0°C) at many places over East Madhya Pradesh,; at a few places over Jharkhand and Sub-Himalaya West Bengal & Sikkim and at isolated places over West Madhya Pradesh, Vidarbha, East Uttar Pradesh, Bihar and Andaman & Nicobar Islands and near normal over rest parts of the country.

- Yesterday, the highest maximum temperature of 42.2°C recorded at Akola (Vidarbha) and Barmer (West Rajasthan) over the country.
- Minimum temperature departures as on 22.04.2019: Minimum temperatures are above normal (1.6°C to 3.0°C) at many places over West Rajasthan; at a few places over East Rajasthan; at isolated places over Coastal Andhra Pradesh, South Interior Karnataka, and Tamil Nadu & Puducherry. They are markedly below normal (-5.1°C or less) at isolated places over Madhya Pradesh, Gangetic West Bengal and Odisha; appreciably below normal (-3.1°C to -5.0°C) at many places over Jharkhand below normal (-1.6°C to -3.0°C) at a few places over Vidarbha; at isolated places over Himachal Pradesh, East Uttar Pradesh, Saurashtra & Kutch, Assam & Meghalaya, Bihar, Konkan & Goa and Madhya Maharashtra and near normal over rest parts of the country.

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

- 22 April (Day 1): Thunderstorm accompanied with gusty winds (wind speed reaching 50-60 kmph) and lightning at isolated places likely over Tamilnadu & Puducherry and Coastal Andhra Pradesh. Thunderstorm accompanied with gusty winds (wind speed reaching 40-50 kmph) and lightning at isolated places very likely over Kerala, Telangana, Rayalaseema, Chhattisgarh, Vidarbha, Sub-Himalayan West Bengal & Sikkim, Bihar and Assam & Meghalaya. Thunderstorm accompanied with gusty winds (wind speed reaching 30-40 kmph) and lightning at isolated places very likely over Odisha, Gangetic West Bengal, Jharkhand and Nagaland, Manipur, Mizoram & Tripura. Heavy rainfall in isolated places very likely over Tamilnadu & Puducherry and Coastal Andhra Pradesh.
- 23 April (Day 2): Thunderstorm accompanied with gusty winds (wind speed reaching 40-50 kmph) and lightning at isolated places very likely over Tamilnadu & Puducherry, Coastal Andhra Pradesh, Kerala and Bihar. Thunderstorm accompanied with gusty winds (wind speed reaching 30-40 kmph) and lightning at isolated places very likely over Jammu & Kashmir, Odisha and Gangetic West Bengal. Heat Wave Conditions likely in isolated pockets over West Rajasthan.
- 24 April (Day 3): Thunderstorm accompanied with hail, gusty winds (wind speed reaching 30-40 kmph) and lightning at isolated places very likely over Himachal Pradesh. Thunderstorm accompanied with gusty winds (wind speed reaching 40-50 kmph) and lightning at isolated places very likely over Chhattisgarh and Jammu &

Kashmir. Thunderstorm/Duststorm accompanied with gusty winds (wind speed reaching 40-50 kmph) and lightning at isolated places very likely over Uttar Pradesh and West Rajasthan. Heat Wave Conditions likely in isolated pockets over Rajasthan, West Madhya Pradesh and Vidarbha.

- 25 April (Day 4): Thunderstorm accompanied with hail, gusty winds (wind speed reaching 30-40 kmph) and lightning at isolated places very likely over Himachal Pradesh. Thunderstorm accompanied with gusty winds (wind speed reaching 30-40 kmph) and lightning at isolated places very likely over Jammu & Kashmir. Thunderstorm/Duststorm accompanied with gusty winds (wind speed reaching 40-50 kmph) and lightning at isolated places very likely over Haryana, Chandigarh & Delhi, Uttar Pradesh and Rajasthan. Heat Wave Conditions likely in some parts over West Madhya Pradesh and in isolated pockets over East Rajasthan, East Madhya Pradesh and Vidarbha. Squally weather (wind speed reaching 30-40 kmph) likely over Equatorial Indian Ocean & adjoining southwest Bay of Bengal and along & off Srilanka coast.
- 26 April (Day 5): Heat Wave Conditions likely in some parts over West Madhya Pradesh and in isolated pockets over East Madhya Pradesh and Vidarbha. Squally weather (wind speed reaching 40-50 kmph) likely over Equatorial Indian Ocean & adjoining southwest Bay of Bengal and along & off Srilanka coas..
- The weather outlook for the period of seven days *i.e* 22 to 29 April 2019 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thundershower may occur over Jammu & Kashmir, Uttarakhand, East Rajasthan, Sub-Himalayan West Bengal & Sikkim, Gangetic West Bengal, Jharkhand, Chhattisgarh, Odisha, Vidarbha, Coastal Andhra Pradesh, Telangana, Rayalaseema, Tamilnadu & Puducherry, Kerala and North Eastern States. (Fig. 2).

## Agricultural activities (AICRPAM-CRIDA)

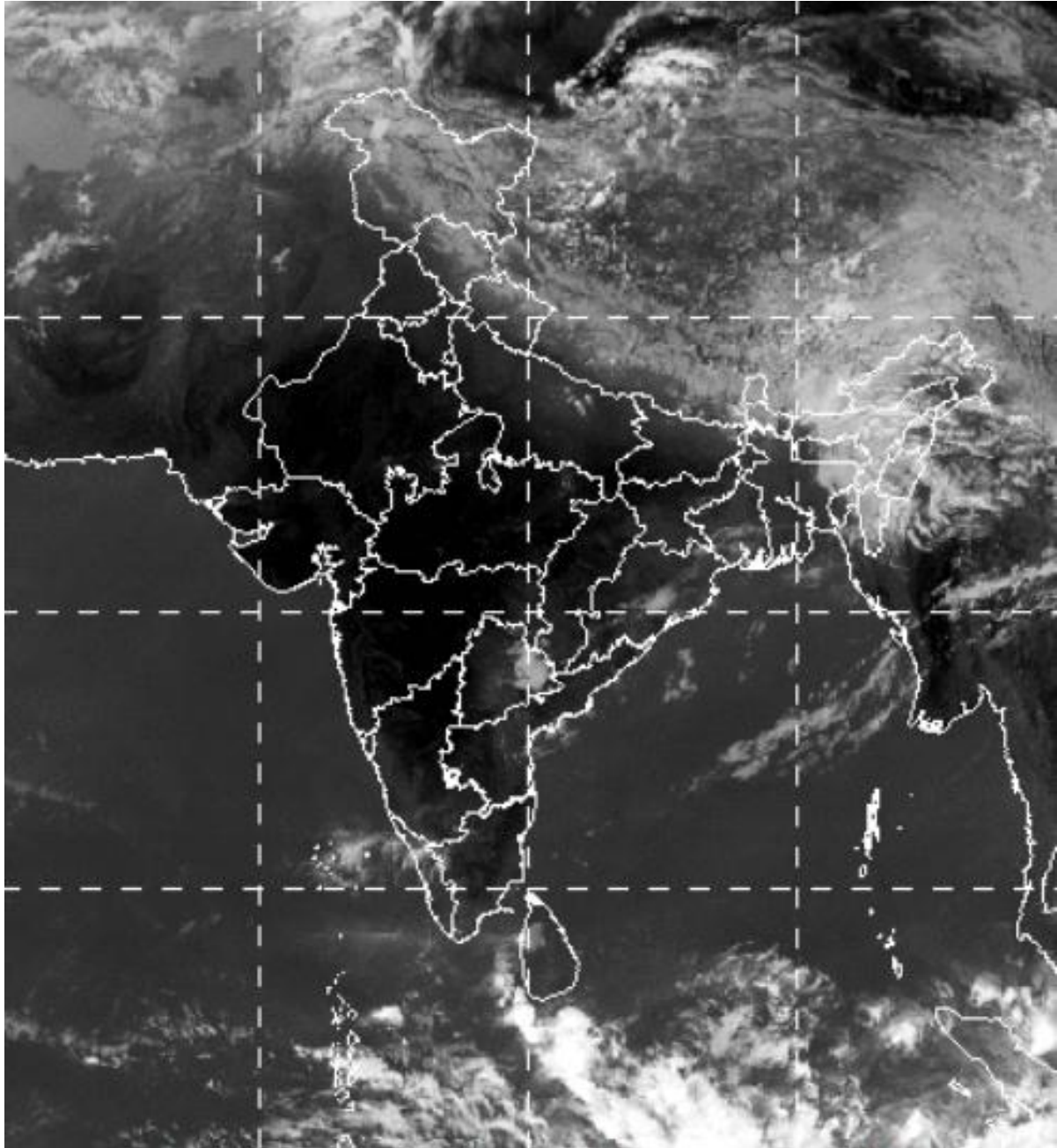
### West Bengal

#### Weather condition:

Light rainfall received in West Bengal state during past few days. Maximum temperature ranged between 33.4 to 37. °C and minimum temperature ranged between 22.0 to 25.0 °C.

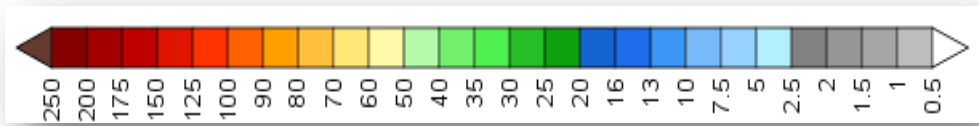
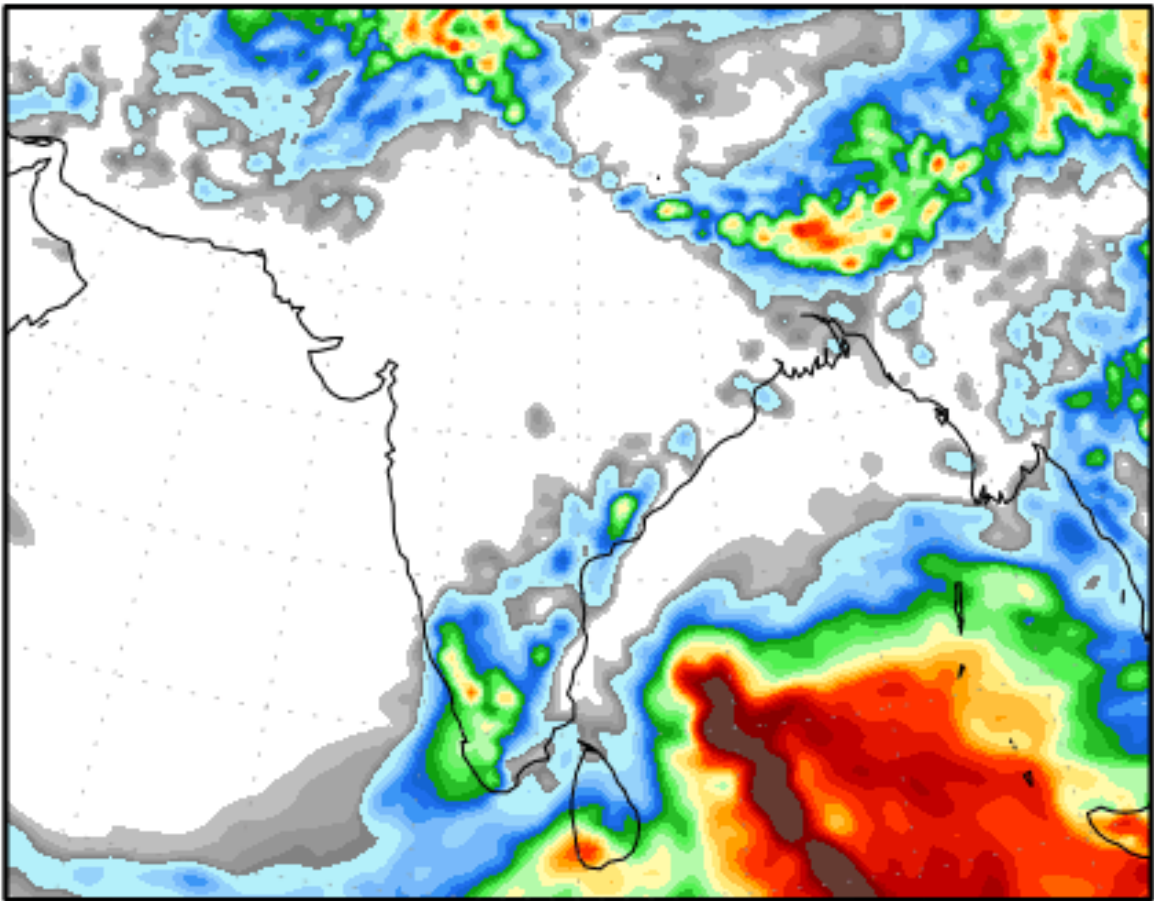
#### Contingency measure:

- Boro Rice: Plants are now in milking to grain filling stage for timely sown crop. In the present weather situation there is a chance of spread of Yellow stem borer in late sown crop and Gundi bug in timely sown crop. Light to heavy rainfall is expected in next few days, so apply irrigation according to the rainfall scenario.
- Jute: Continue sowing operation as there is chance of rainfall for coming days. Before sowing, seeds should be treated with Carbendazim (@ 2 to 3 gm per Kg of seed).
- Sesame: It is the time for flowering for timely sown crop. According the amount of actual rainfall, irrigate the crop. In the prevailing weather situation, there is a possibility of attack of the disease leading to leaf-rolling. Uproot the infected plants. Apply Urea (@ 25 Kg/ Ha) as top dressing.
- Mango: As the temperature is likely to be increased, so there is a chance of attack of Mites. To control the pest apply 1-2 gm Sulphur pesticide per litre of water. Apply irrigation as per requirement.
- Vegetables: maintain proper drainage channel as rainfall is forecasted.



**Figure: 1. Latest available satellite picture as on 22 April 2019 at 0230 Hrs (IST).**

**(Source: IMD).**



**Figure: 2. Precipitation forecast for 22 to 29 April 2019 (Source: NOAA NCEP).**