

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

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

### **Daily Crop Weather Information as on 14 May 2019**

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

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

- The current Western Disturbance over East Iran & neighbourhood is likely to affect northwest India from 15th night and cause fairly widespread to widespread precipitation over Western Himalayan region and isolated to scattered rain/thundershower over adjoining plains.
- Heat wave conditions likely in isolated pockets over Vidarbha, Chhattisgarh, Telangana and Tamilnadu & Puducherry during next 3-4 days.
- Dust raising winds are likely over southern parts of Rajasthan and southwest Madhya Pradesh during next 24 hours.
- The images showing the latest satellite picture in figure. 1.

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

- Rain/Thundershowers observed (from 0830 hours to 0830 hours IST of today) at most places over Jammu & Kashmir, Punjab, Haryana, Chandigarh & Delhi, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; at many places over Uttarakhand and Gangetic West Bengal; at a few places over Himachal Pradesh and at isolated places over Rajasthan, Uttar Pradesh, Madhya Pradesh, Chhattisgarh, Bihar, Jharkhand, Coastal Andhra Pradesh, South Interior Karnataka, Tamilnadu & Puducherry and Andaman & Nicobar Islands. Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today) at a few places over Chhattisgarh and at isolated places over Jammu & Kashmir, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Rajasthan, West Madhya Pradesh, Bihar, Jharkhand, West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Chhattisgarh, Odisha, Telangana, South Interior Karnataka, Coastal Andhra Pradesh and Tamilnadu & Puducherry.
- Yesterday, heat Wave Conditions were observed in isolated pockets over Vidarbha and Tamilnadu.

- Maximum temperature departures as on 13.05.2019: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over Gangetic West Bengal, Vidarbha, Rayalaseema, Tamilnadu & Puducherry and Andaman & Nicobar Islands; above normal (1.6°C to 3.0°C) at most places over Jammu & Kashmir, Telangana, North Interior Karnataka and Nagaland, Manipur, Mizoram & Tripura; at many places over Assam & Meghalaya, Odisha and Kerala; at a few places over Madhya Maharashtra and at isolated places over Himachal Pradesh, West Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Bihar, Jharkhand, East Madhya Pradesh, Saurashtra & Kutch, Coastal Karnataka and South Interior Karnataka. They were below normal (-1.6°C to -3.0°C) at isolated places over Rajasthan and West Madhya Pradesh and near normal over rest of the country.
- Yesterday, the highest maximum temperature of 45.8°C was recorded at Chandrapur (Vidarbha).
- Minimum temperature departures as on 14.05.2019: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at isolated places over Telangana and North Interior Karnataka; above normal (1.6°C to 3.0°C) at many places over Sub-Himalayan west Bengal and Kerala; at a few places over Bihar, Uttarakhand and Tamilnadu & Puducherry; at isolated places over Odisha, Himachal Pradesh and Uttar Pradesh. They are below normal (-1.6°C to -3.0°C) at many places over Punjab, Haryana, Chandigarh & Delhi and Madhya Pradesh; at a few places over Gangetic West Bengal and Chhattisgarh; at isolated places over Rajasthan, Vidarbha, Madhya Pradesh and Assam & Meghalaya and near normal over rest parts of the country.

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

14 May (Day 1): Thunderstorm & lightning accompanied with hail at isolated places very likely over Himachal Pradesh, Uttarakhand and Sub-Himalayan West Bengal & Sikkim; with squall (50-60 kmph) at isolated places likely over Odisha; with gusty winds (50-60 kmph) at isolated places very likely over Tamilnadu & Puducherry; with gusty winds (40-50 kmph) at isolated places over Gangetic West Bengal, Coastal Andhra Pradesh and Rayalaseema; with gusty winds (30-40 kmph) at isolated places over Punjab, Haryana, Chandigarh, Chandigarh & Delhi, Madhya Pradesh, Chhattisgarh, Bihar, Jharkhand, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, South Interior Karnataka and Kerala. Thunderstorm/Duststorm & lightning accompanied with gusty winds (30-40 kmph) at isolated places very likely over West Uttar Pradesh and Rajasthan. Heavy rainfall at isolated places very likely over Tamilnadu & Puducherry. Heat Wave Conditions at isolated places very likely over Vidarbha.

15 May (Day 2): Thunderstorm & lightning accompanied with gusty winds (50-60 kmph) at isolated places very likely over Coastal Andhra Pradesh; with gusty winds (40-50 kmph) at isolated places over Tamilnadu & Puducherry; with gusty winds

(30-40 kmph) at isolated places over Punjab, Haryana, Chandigarh, Chandigarh & Delhi, Madhya Pradesh, Chhattisgarh, Bihar, Jharkhand, Odisha, West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, South Interior Karnataka and Kerala. Thunderstorm/Duststorm & lightning accompanied with gusty winds (30-40 kmph) likely at isolated places over West Uttar Pradesh and Rajasthan. Heavy rainfall at isolated places very likely over Coastal Andhra Pradesh and Assam & Meghalaya. Heat Wave Conditions at isolated places very likely over Vidarbha, Telangana and Tamilnadu & Puducherry.

16 May (Day 3): Thunderstorm & lightning accompanied with hail and gusty winds (40-50 kmph) at isolated places very likely over Himachal Pradesh; with gusty winds (40-50 kmph) at isolated places very likely over Jammu & Kashmir and Tamilnadu & Puducherry; with gusty winds (30-40 kmph) at isolated places very likely over Punjab, Haryana, Chandigarh & Delhi, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Saurashtra & Kutch and Coastal Andhra Pradesh. Thunderstorm/Duststorm & lightning accompanied with gusty winds (30-40 kmph) at isolated places very likely over Rajasthan. Heat Wave Conditions at isolated places very likely over Vidarbha, Chhattisgarh, Telangana and Tamilnadu & Puducherry. Heavy rainfall at isolated places very likely over Assam & Meghalaya.

17 May (Day 4): Thunderstorm & lightning accompanied with squall (50-60 kmph) at isolated places likely over Assam & Meghalaya; with gusty winds (40-50 kmph) at isolated places likely over Himachal Pradesh and Uttarakhand; with gusty winds (30-40 kmph) at isolated places likely over Jammu & Kashmir and Nagaland, Manipur, Mizoram & Tripura. Heat Wave Conditions at isolated places likely over Vidarbha, Chhattisgarh, Odisha, Telangana and Tamilnadu & Puducherry.

18 May (Day 5): Thunderstorm & lightning accompanied with hail and gusty winds (40-50 kmph) at isolated places likely over Uttarakhand. Heat Wave Conditions at isolated places likely over Vidarbha, Chhattisgarh, Odisha, Telangana and Tamilnadu & Puducherry.

- The weather outlook for the period of seven days *i.e* 14 to 21 May 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 Himachal Pradesh Punjab, Haryana, Chandigarh & Delhi, Rajasthan, Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Gangetic West Bengal, Bihar, Jharkhand, Madhya Pradesh, Chhattisgarh, Odisha, Telangana, Coastal Andhra Pradesh, South Interior Karnataka, Tamilnadu & Puducherry, Andaman & Nicobar Islands and North Eastern States. (Fig. 2).

## Agricultural activities (AICRPAM-CRIDA)

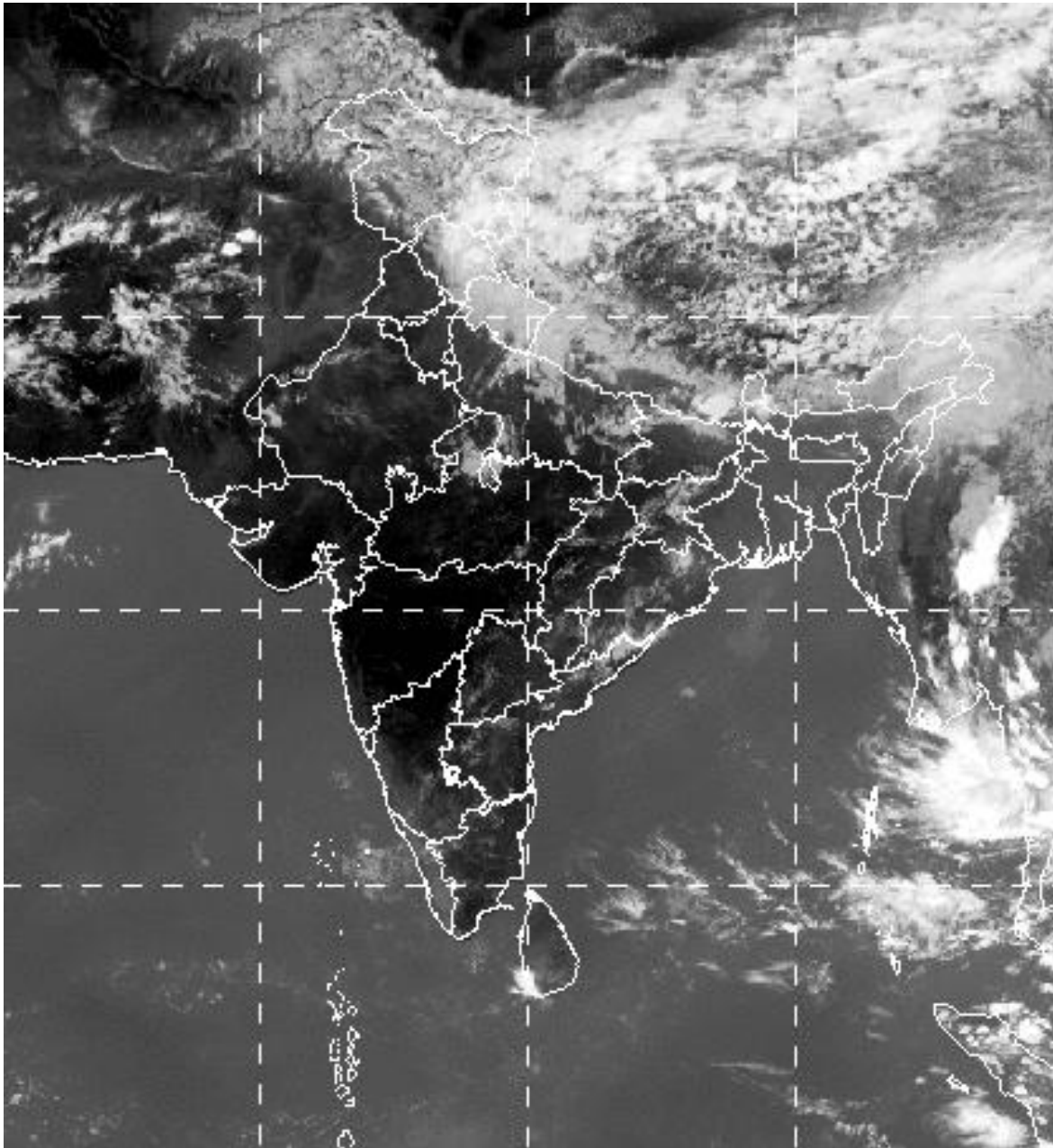
### Uttarakhand

#### Weather condition:

Dry and clear weather prevailed in Uttarakhand state during past few days. Average maximum temperature 28.4 °C and minimum temperature is 15.0 °C.

#### Contingency measure:

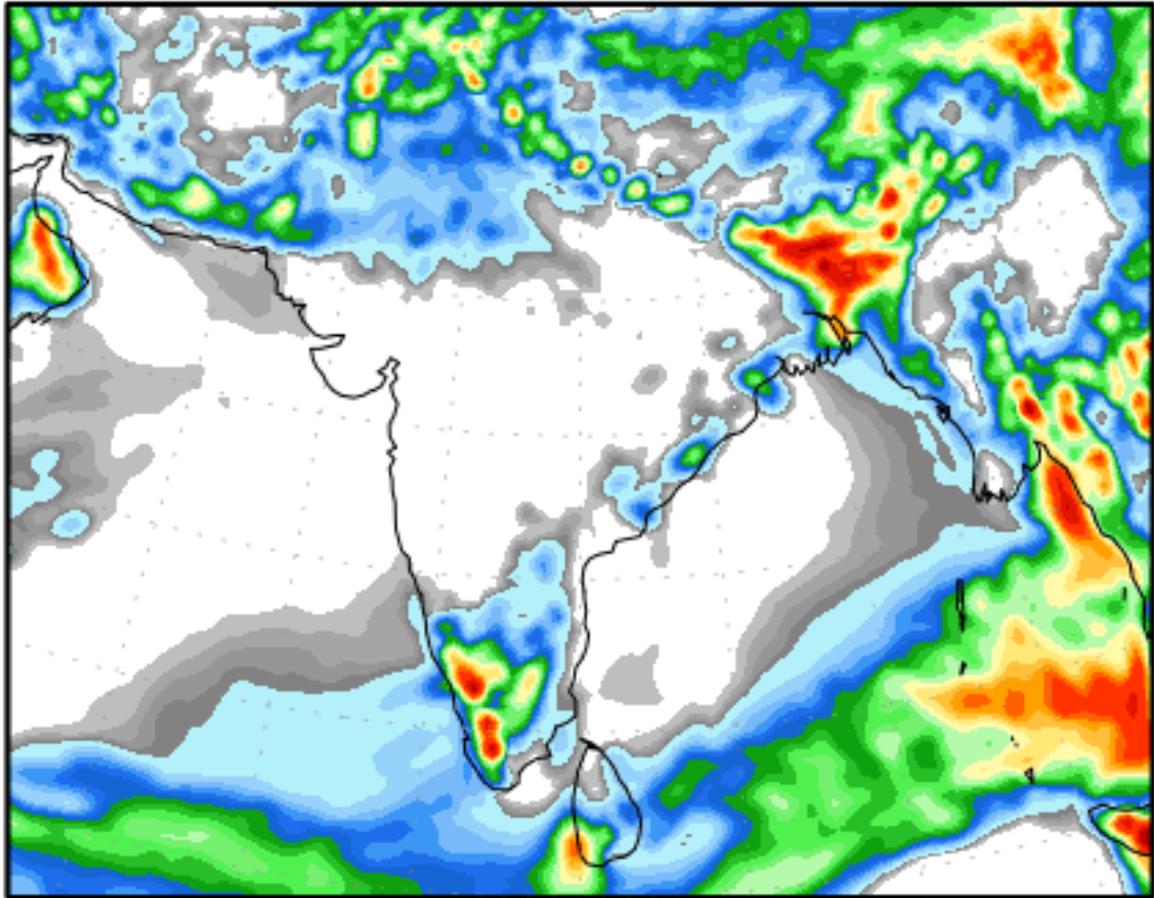
- Harvest matured crop and kept in safer place. Postpone irrigation and chemicals. Remove disease affected plants. Hoeing and weeding should be done after 2-3 weeks of emergence of barnyard millet. Avoid water logging in onion field.
- Field preparation for sowing of ginger. Select disease free and treated rhizome as seed.
- Earthing up and mulching should be done in potato. Apply bio-fungicide in field during inter-culture operations to minimize the pathogen attack. Staking and mulching should be done in tomato.
- Hail net should used in fruit bearing plants in temperate orchards. Mulching may be done with crop residues for conserving moisture. Proper arrangement for rain water storage in orchard site.
- Doors and window should close properly in mushroom cultivated room. Maintain optimum temperature and Relative Humidity in crop room.
- FMD vaccination should be given to cow and buffaloes. Clean water should used for drinking. Clean the cowshed.
- Prepare fire line to protect from forest fire. Start pit formation for transplanting of rainy season plants.



**Figure: 1. Latest available satellite picture as on 14 May 2019 at 0230 Hrs (IST).**

**(Source: IMD).**





**Figure: 2. Precipitation forecast for 14 to 21 May 2019 (Source: NOAA NCEP).**