

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

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

### **Daily Crop Weather Information as on 29 April 2020**

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

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

- A Low Pressure area is very likely to form over south Andaman Sea and neighbourhood during next 48 hours. It is very likely to become more marked and concentrate into a depression during subsequent 48 hours and likely to intensify further thereafter. It is very likely to move north-northwestwards during 01st - 03rd May and subsequently north-northeastwards towards Myanmar - Bangladesh coasts. Under its influence, Squally winds, speed reaching 40-50 kmph gusting to 60 kmph on 01st May over south Andaman Sea, Nicobar Islands and adjoining southeast Bay of Bengal; wind speed reaching 45-55 kmph gusting to 65 kmph over the same regions on 02nd May and wind speed reaching 50-60 kmph gusting to 70 kmph over southeast Bay of Bengal and adjoining south Andaman Sea on 03rd May. Heavy to very heavy rainfall at a few places are also likely over Nicobar Islands on 02nd May and heavy rain at isolated places on 01st & 03rd May over the same region.
- Under the influence of trough/Wind Discontinuity across Peninsular India, scattered to fairly widespread rain/thundershowers are likely over Kerala & Mahe during next 2 days, over Maharashtra, Goa and north Interior Karnataka mainly during 29th April to 01st May. Isolated thunderstorms, lightning, gusty winds (30-40 kmph) are also likely over these regions during this period.
- An approaching Western Disturbance is likely to cause isolated to scattered rain/thundershowers over Western Himalayan Region, Punjab and Haryana, Chandigarh & Delhi from tomorrow with peak activity around 30th April-01st May.
- The images showing the latest satellite picture in the 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 Andaman & Nicobar Islands, Rayalaseema and Kerala & Mahe; at many places over West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and South Interior

Karnataka; at a few places over East Madhya Pradesh, Odisha, Telangana and Tamil Nadu, Puducherry & Karaikal and at isolated places over Himachal Pradesh, Uttarakhand, Uttar Pradesh, Rajasthan, Haryana, Chandigarh & Delhi, West Madhya Pradesh, Bihar, Jharkhand, Odisha, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam and North Interior Karnataka.

- Heavy to very heavy rainfall reported at isolated places over Kerala and heavy rainfall at isolated places over Rayalaseema, South Interior Karnataka and Tamilnadu. Hailstorm reported at isolated places over West Madhya Pradesh and Telangana. Thundersquall (speed exceeding 65 kmph) reported at isolated places over Vidarbha.
- Thunderstorm (from 2030 hours IST of yesterday to 0830 hours IST of today) observed at isolated places over Bihar, Jharkhand, Odisha, West Bengal & Sikkim, Odisha and Tamil Nadu.
- Maximum Temperature Departures as on 28-04-2020: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated place over east Assam; above normal (1.6°C to 3.0°C) at most places over Lakshadweep; at many places over Konkan & Goa and Kerala & Mahe and at isolated places over Coastal & South Interior Karnataka and Tamilnadu, Puducherry & Karaikal. They were markedly below normal (-5.1°C or less) at most places over West Uttar Pradesh, Bihar, Jharkhand and Sub-Himalayan West Bengal & Sikkim; at many places over East Uttar Pradesh; at a few places over Uttarakhand and north Odisha and at isolated places over Haryana, Chandigarh & Delhi, East Madhya Pradesh and Gangetic West Bengal; appreciably below normal (-3.1°C to 5.0°C) at most places over Punjab and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Chhattisgarh, Vidarbha, South Odisha, west Assam and Telangana; below normal (-1.6°C to -3.0°C) at many places over Rajasthan and West Madhya Pradesh and at a few places over Coastal Andhra Pradesh and at isolated places over Tamilnadu, Puducherry & Karaikal and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 42.4°C was reported at Phalodi (West Rajasthan).
- Minimum Temperature Departures as on 29-04-2020: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at isolated places over Gujarat and Madhya Maharashtra; above normal (1.6°C to 3.0°C) at many places over West Rajasthan and Lakshadweep; at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad and Konkan & Goa. They are markedly below normal (-5.1°C or less) at isolated places over East Uttar Pradesh and Rayalaseema; appreciably below normal (-3.1°C to -5.0°C) at a few places over

Jharkhand, Vidarbha, Chhattisgarh and Odisha; at isolated places over West Uttar Pradesh, Madhya Pradesh, Telangana, Gangetic West Bengal and Tamil Nadu, Puducherry & Karaikal; below normal (-1.6°C to -3.0°C) at many places over Himachal Pradesh and Bihar; at isolated places over Haryana, Chandigarh & Delhi, Punjab, Assam & Meghalaya, South Interior Karnataka and Kerala & Mahe and near normal over rest parts of the country. The lowest minimum temperature of 14.7°C reported at Fatehgarh (East Uttar Pradesh) over the plains of the country.

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

- 29 April (Day 1): Thunderstorm accompanied with lightning, hail & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Madhya Maharashtra, Telangana and Rayalaseema; with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places over Sub-Himalayan West Bengal; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Gangetic West Bengal, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Marathawada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe and with lightning at isolated places over Vidarbha, Chhattisgarh, Bihar, Jharkhand, Odisha and Coastal & North Interior Karnataka. Heavy rainfall likely at isolated places over Rayalaseema, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- 30 April (Day 2): Thunderstorm accompanied with lightning, hail & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Himachal Pradesh, Uttarakhand, Chhattisgarh, Telangana and Madhya Maharashtra; with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places over Sub-Himalayan West Bengal & Sikkim; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Madhya Pradesh, Vidarbha, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Marathawada, Konkan & Goa, Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Rajasthan, Bihar, Jharkhand, Odisha, Arunachal Pradesh, Coastal Andhra Pradesh & Yanam and Rayalaseema. Heavy rainfall very likely isolated places over Coastal & South Interior Karnataka, Kerala & Mahe and Sub-Himalayan West Bengal & Sikkim.

- 01 May (Day 3): Thunderstorm accompanied with lightning, hail & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Vidarbha and Chhattisgarh; with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places over Andaman & Nicobar Islands; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over East Uttar Pradesh, East Madhya Pradesh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana and Kerala & Mahe and with lightning at isolated places over Konkan & Goa, Rayalaseema, Coastal & South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal. Duststorm/thunderstorm accompanied with gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Rajasthan. Heavy rainfall very likely isolated places over Nicobar Islands. Squally winds, speed reaching 40-50 kmph gusting to 60 kmph is likely to prevail over south Andaman Sea, Nicobar Islands and adjoining southeast Bay of Bengal. Sea condition will be rough to very rough over north Sumatra coast, south Andaman Sea and adjoining southeast Bay of Bengal. The fishermen are advised not to venture into these areas.
- 02 May (Day 4): Thunderstorm accompanied with lightning, hail & gusty winds (speed reaching 30-40 kmph) likely at isolated places over Uttarakhand and East Madhya Pradesh; with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places over Andaman & Nicobar Islands and Gangetic West Bengal; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over West Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Bihar, Konkan & Goa and Coastal & South Interior Karnataka. Duststorm/thunderstorm accompanied with gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Rajasthan. Heavy to very heavy rainfall likely a few places over Nicobar Islands. Squally winds, speed reaching 45-55 kmph gusting to 65 kmph is likely to prevail over south Andaman Sea and adjoining southeast Bay of Bengal. Sea condition will be rough to very rough over south Andaman Sea and adjoining southeast Bay of Bengal. The fishermen are advised not to venture into these areas.
- 03 May (Day 5): Thunderstorm accompanied with lightning, hail & gusty winds (speed reaching 30-40 kmph) likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh and Uttarakhand; with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places over

Gangetic West Bengal, Odisha, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Madhya Pradesh, Chhattisgarh, Jharkhand, Bihar, Sub-Himalayan West Bengal & Sikkim, Telangana and Kerala & Mahe and with lightning at isolated places over Rajasthan, Coastal Andhra Pradesh & Yanam, Karnataka and Odisha. Heavy rainfall likely at isolated places with over Nicobar Islands. Squally winds, speed reaching 50-60 kmph gusting to 70 kmph is likely to prevail over southeast Bay of Bengal and adjoining south Andaman Sea. Sea condition will be rough to very rough over southeast Bay of Bengal and adjoining south Andaman Sea. The fishermen are advised not to venture into these areas.

- The weather outlook for seven days i.e., 29 April to 07 May 2020 forecasted (Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>) rain/thundershower may occur over Some parts of Extreme northern parts of India. (Fig. 2).

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

### **Rajasthan**

#### **Weather condition:**

State:Light rainfall with hail storm recorded in Nagour, Baran and Jaipur on Thursday(23.04.2020). On Saturday(25.04.2020) hailstorm with light rainfall recorded in Ajmer,Nagour,Udaipur and Churu district, whereas Sikar, Bhiwara, Rajsamand,Barmer and Pratapgarh received light rainfall. At the centre, received 8.0 mm rainfall during the week.The max. temp. range from 24.4 to 38.5 degree C with mean value of 34.9 degree C which was 1.9 degree below the normal value. The min. temp. range from 17.5 to 23.5 with mean value of 19.8 which was 0.2 degree below normal. The wind velocity ranges from 3.2 to 7.7 with mean value of 5.5 km/hr. The BSSH ranges from 7.3 to 9.8 with mean value of 9.0 hrs.The mean evaporation was 8.9 mm.

#### **Contingency measure:**

- There is possibility of light rainfall on 1st May so farmers are advised to complete threshing of crops should be done and keep farm produce under safe place. There is possibility of light rainfall on 1st may so farmers are advised to complete the winnowing of wheat produce for storage. Before storage, grains should be properly cleaned and it should be dried to the recommended level of moisture content not more than 12%. Go-downs should be properly cleaned by removing all the grains and other storage matter of previous crop. Cracks and crevices of

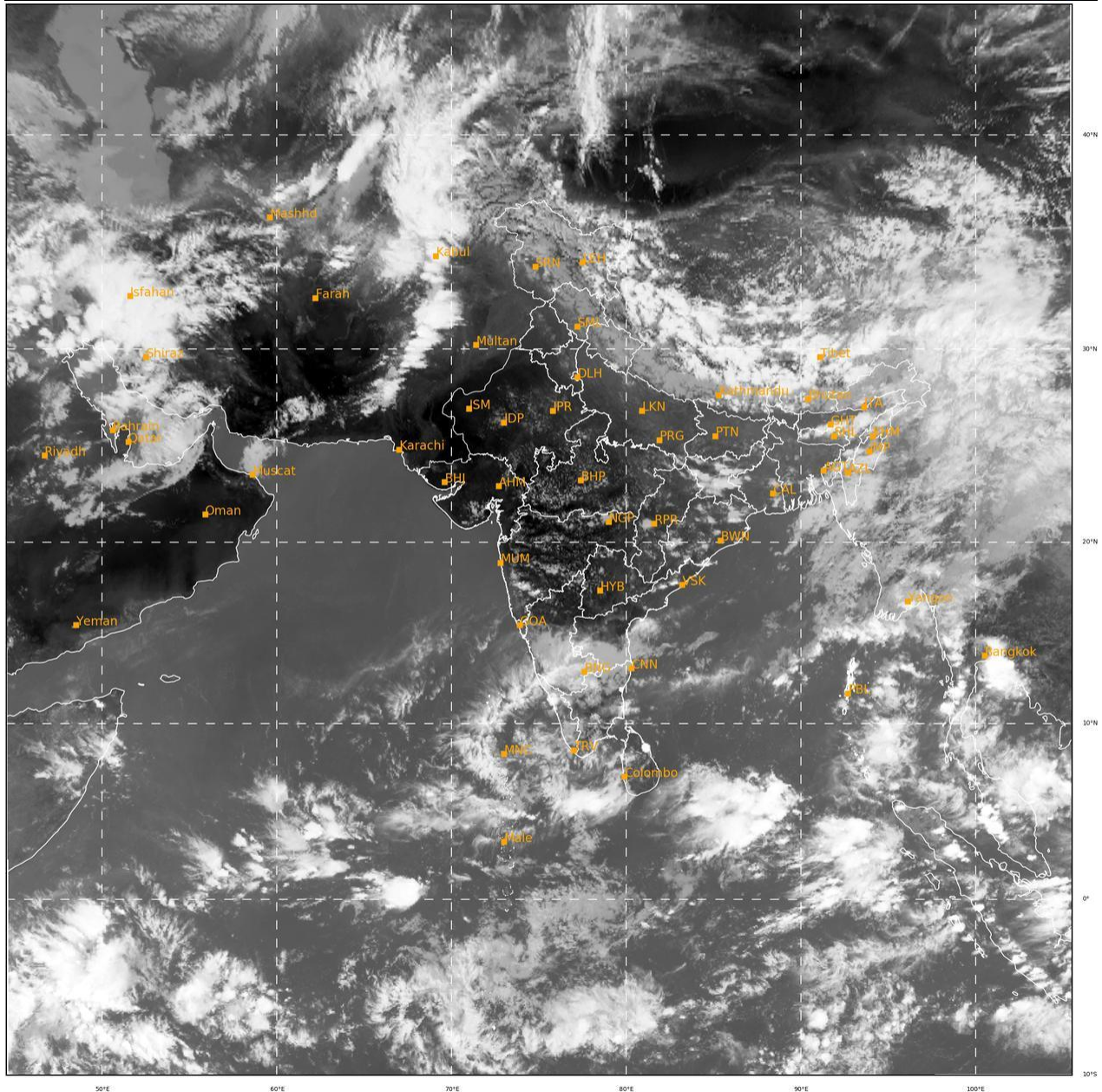
the walls should be cleaned and repaired and whitewashing should be done. Those who can afford are advised to spray 0.5 % Malathion solution and keep the chamber closed for 7-8 days. Old gunny bags should be deep in solution having one litre Malathion in 100 litre water and dried in shade before using. Field preparation should be done for sowing of cotton in this week.

- Farmers are advised to procure good quality certified seeds from reliable sources. When the size of okra fruit is 5 inches long the picking should be done. After picking, top dress urea @ 30 kg/ha in okra. Due to the rainfall in previous days there is sufficient moisture available in the field, so it is the right time to dig out the mature onion.
- Looking to the increase in temperature in coming days make suitable arrangement for animal to protect from high temperature, and make provision for drinking water.



SAT : INSAT-3D IMG  
IMG\_TIR1 10.8 um  
LIC Mercator

29-04-2020/(0800 to 0826) GMT  
29-04-2020/(1330 to 1356) IST

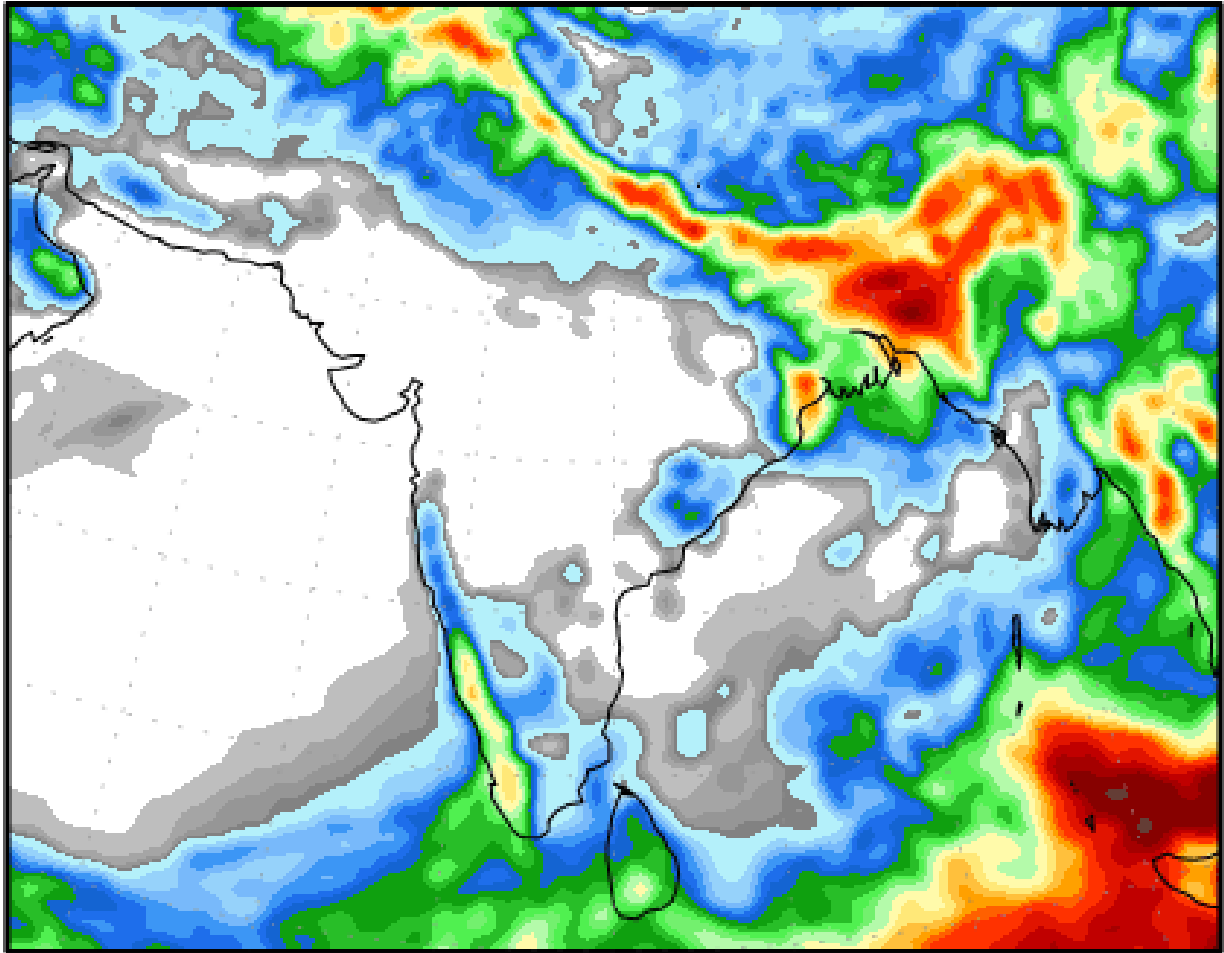


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IMD, DELHI

Figure: 1. Latest available satellite picture as on 29 April 2020 at 1356 Hrs (IST). (Source: IMD).



**Figure:2. Precipitation forecast for 29 April to 07 May 2020 (Source: NOAA NCEP).**

*Disclaimer: The predictability of weather depends on many dynamic factors. The success of Agromet advisories provided here depends on the accuracy of the forecasts. In no event will India Meteorological Department (IMD) and Indian Council of Agricultural Research (ICAR) be liable to the user or any third party for any direct, indirect, incidental, consequential, special or exemplary damages or lost profit resulting from any use or misuse of the information on this bulletin.*