

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

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

### **Daily Crop Weather Information as on 16 April 2020**

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

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

- A fresh Western Disturbance is very likely to affect Western Himalayan Region (Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh and Uttarakhand) and adjoining northern plains mainly on 17th & 18th April. It is very likely to cause scattered to Fairly widespread rain/thundershowers over Western Himalayan Region and isolated to scattered rain/thundershowers over northern plains (Punjab, Haryana, Chandigarh & Delhi, north Rajasthan and West Uttar Pradesh) on 17th & 18th April. This could also result in isolated thunderstorms/hailstorms and gusty winds over these areas during the same period.
- Due to the convergence of strong moist winds from the Bay of Bengal, Northeast India (Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura) and Sub-Himalayan West Bengal & Sikkim are very likely to experience fairly widespread to widespread rainfall during next 7 days with varying intensity. Adjoining parts of eastern states (Bihar and West Bengal) are also likely to experience similar weather on a few days during this period. Isolated heavy rainfall, thundersqualls & hailstorms are also very likely over these regions during the same period.
- Maximum temperatures in the range of 40-42°C are likely to prevail over parts of Telangana, Rayalaseema and North Interior Karnataka during next 2 days. Maximum temperatures likely to fall by 2-3°C over plains of northwest India and Gujarat during next 2-3 days.
- 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 many places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura and Assam & Meghalaya; at a few places over Kerala & Mahe and Andaman & Nicobar Islands; at isolated places over Himachal Pradesh, Uttarakhand, Madhya

Maharashtra, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Odisha and Tamil Nadu, Puducherry & Karaikal.

- Heavy rainfall occurred at isolated places over Meghalaya and Tamil Nadu.
- Yesterday, heat wave to severe heat wave conditions observed in isolated pockets over Saurashtra & Kutch.
- Thunderstorm observed (from 1130 IST of yesterday to 0830 hours of today): at isolated places over West Bengal & Sikkim, Bihar, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Himachal Pradesh, Odisha, Vidarbha, Madhya Maharashtra, Coastal Karnataka and Uttarakhand.
- Maximum Temperature Departures as on 15-04-2020: Maximum temperatures were markedly above normal (5.0°C or more) at a few places over Arunachal Pradesh and Assam & Meghalaya and at isolated places over Himachal Pradesh; appreciably above normal (3.1°C to 5.0°C) at most places over Punjab; at many places over Haryana, Chandigarh & Delhi and at isolated places over Jammu, Kashmir and Ladakh, Uttarakhand, Rajasthan, Nagaland, Manipur, Mizoram & Tripura and Tamil Nadu, Puducherry & Karaikal; above normal (1.6°C to 3.0°C) at most places over Saurashtra & Kutch and Konkan & Goa; at many places over Coastal Karnataka and Kerala & Mahe; at a few places over Gujarat region, Madhya Maharashtra, Marathwada, Madhya Pradesh, West Uttar Pradesh and Lakshadweep and at isolated places over Gangetic West Bengal, Jharkhand, East Uttar Pradesh, Chhattisgarh and South Interior Karnataka. They were appreciably below normal (-3.1°C to -5.0°C) at isolated places over Bihar, Coastal Andhra Pradesh and Andaman & Nicobar Islands; below normal (-1.6°C to -3.0°C) at isolated places over Telangana and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 43.4°C was reported at Jalgaon (Madhya Maharashtra).
- Minimum Temperature Departures as on 16-04-2020: Minimum temperatures are markedly above normal (5.1°C or more) at isolated places over West Rajasthan; appreciably above normal (3.1°C to 5.0°C) at a few places over Punjab; at isolated places over Uttar Pradesh, Himachal Pradesh, West Madhya Pradesh and Madhya Maharashtra; above normal (1.6°C to 3.0°C) at many places over Uttarakhand, Gujarat state, Konkan & Goa, North Interior Karnataka and East Madhya Pradesh; at a few places over Haryana, Chandigarh & Delhi; at isolated places over Odisha, Andaman & Nicobar Islands and Kerala & Mahe. They are below normal (-1.6°C to -3.0°C) at a few places over West Bengal & Sikkim; at isolated places over Nagaland, Manipur, Mizoram & Tripura and Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country. The lowest

minimum temperature of 17.9°C reported at Amritsar (Punjab) over plains of the country.

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

- 16 April (Day 1): Thunderstorm accompanied with lightning, hail & squall (speed reaching 45-55 kmph) very likely at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; with lightning & gusty winds (speed reaching 30-40 kmph) likely over Arunachal Pradesh, Vidarbha, West Bengal & Sikkim and Madhya Maharashtra; with lightning over East Madhya Pradesh, Chhattisgarh, Bihar, Jharkhand, Odisha, Marathawada, Telangana, Coastal Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. Heavy rainfall likely at isolated places over Assam & Meghalaya.
- 17 April (Day 2): Thunderstorm accompanied with lightning, hail & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Uttarakhand; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Odisha, West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Arunachal Pradesh and with lightning at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Madhya Maharashtra, Marathawada, Telangana, Karnataka and Kerala & Mahe. Dust/Thunderstorm accompanied with gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Rajasthan. Squally weather (wind speed 45-55 kmph) likely to prevail over northwest Bay of Bengal off West Bengal-Odisha coasts. Fishermen are advised not to venture into these areas.
- 18 April (Day 3): Thunderstorm accompanied with lightning & squall (speed reaching 45-55 kmph) likely at isolated places over West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Bihar; with lightning, hail & gusty winds (speed reaching 30-40 kmph) likely at isolated places over Uttarakhand, Arunachal Pradesh, Telangana and Coastal Andhra Pradesh & Yanam; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Chhattisgarh and Odisha and with lightning at isolated places over Madhya Maharashtra, Marathawada, Kerala & Mahe and Karnataka. Heavy rainfall likely at isolated places over Assam & Meghalaya, Arunachal Pradesh and Coastal Andhra Pradesh & Yanam.

- 19 April (Day 4): Thunderstorm accompanied with lightning & squall (speed reaching 45-55 kmph) likely at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; with lightning, hail & gusty winds (speed reaching 30-40 kmph) likely at isolated places over Vidarbha, Chhattisgarh, Madhya Maharashtra and Telangana; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Uttar Pradesh, Bihar, West Bengal & Sikkim, Arunachal Pradesh, Marathawada, South Interior Karnataka and Kerala & Mahe and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh, Madhya Pradesh, Jharkhand, Odisha, Coastal Andhra Pradesh & Yanam and Coastal & North Interior Karnataka. Heavy rainfall likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Arunachal Pradesh. Dust/Thunderstorm accompanied with gusty winds(speed reaching 30-40 kmph) likely at isolated places over Rajasthan.
- 20 April (Day 5): Thunderstorm accompanied with lightning & squall (speed reaching 45-55 kmph) likely at isolated places over Bihar and Gangetic West Bengal; with lightning, hail & gusty winds (speed reaching 30-40 kmph) likely at isolated places over Vidarbha, Chhattisgarh, Madhya Maharashtra, Marathawada, North Interior Karnataka and Telangana; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Uttar Pradesh, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Coastal Karnataka and Kerala & Mahe and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh, Madhya Pradesh, Odisha, Coastal Andhra Pradesh & Yanam, Rayalaseema and Tamil Nadu, Puducherry & Karaikal.
- The weather outlook for seven days i.e., 16 to 24 April 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)**

### **Andhra Pradesh**

#### **Weather condition:**

Cloudy weather will be appearing but no rainfall during this week. Maximum and minimum temperature may be expected 1-2 °C higher than its normal. South- Easterly /

North - Westerly winds may be expected and prevailing 7.5 to 12.8 kmph, which is 4-5 kmph higher than normal during this week as per forecast.

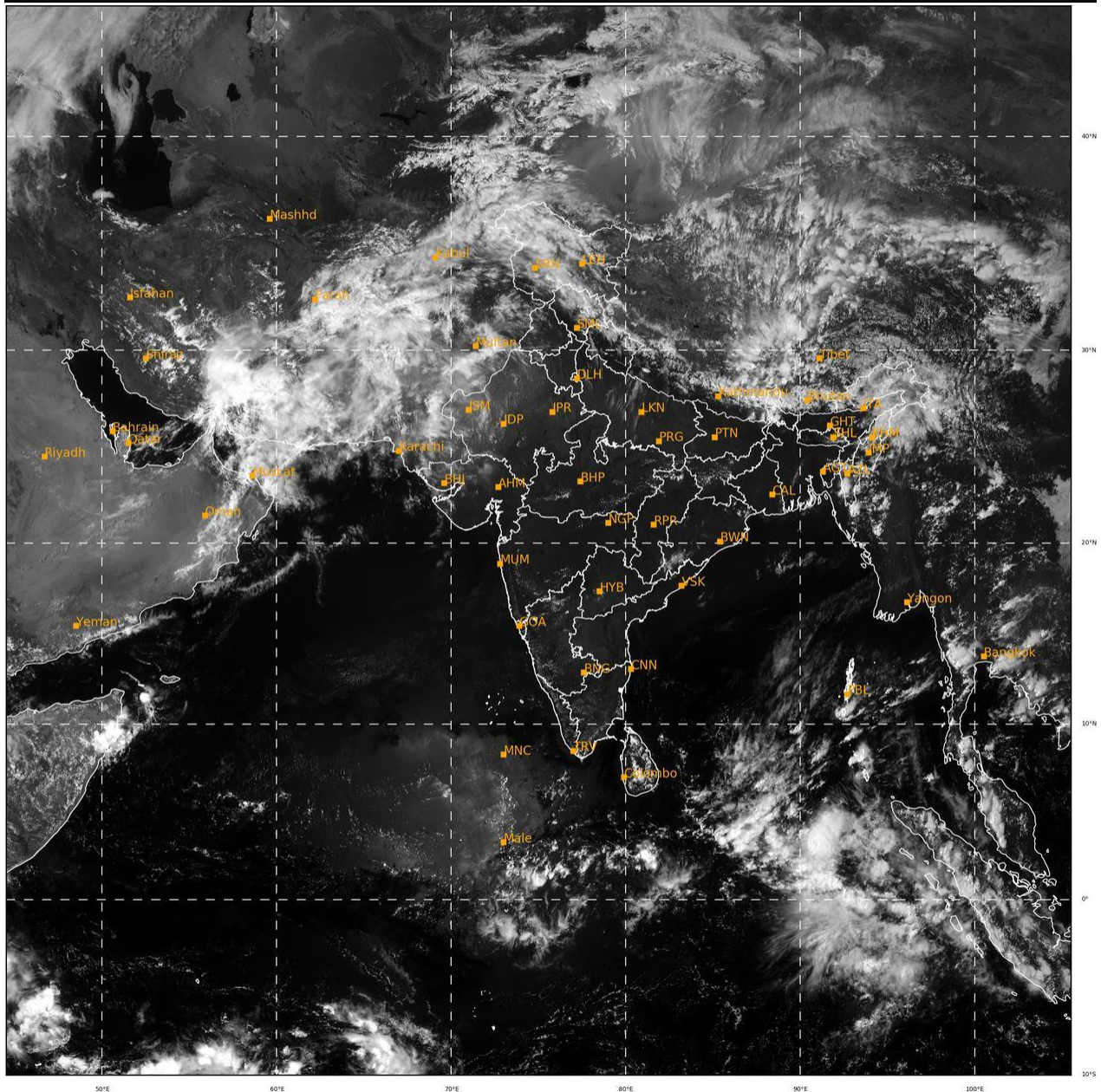
### Contingency measure:

- Wheat: Farmers are advised to take precautions from getting affected due to Corona virus like frequently wash their hands, keep social distancing during harvesting of Rabi crops and strictly follow the lock down instructions proclaimed by Honble Prim Minister. Farmers are advised to harvested crop, tying bundles after drying and threshing should be done. Barley :Farmers are advised to harvested crop tying bundles after drying and threshing should be done.
- Rabi maize: Light irrigation should be given at milking stage.
- Pigeon pea: Harvest mature crop.
- Pea: Threshing and winnowing should be done. Store grain/seed at proper moisture.
- Gram: Harvesting, threshing and winnowing should be done. Store grain/seed at proper moisture.
- Lentil:Harvesting, threshing and winnowing should be done. Store grain/seed at proper moisture.
- Zaid Pulses: Black gram:Weeding should be taken up. Green gram:Weeding should be taken up.
- Zaid maize: Weeding and earthing should be taken up.
- Mustard: Threshing and winnowing should be done. Store grain/seed at proper moisture.
- Linseed: Threshing and winnowing should be done. Store grain/seed at proper moisture.
- Brinjal / Chilies: Pick up mature fruits in standing crop. Watchful insect and pest.
- Leafy Vegetable: Cutting, marketing, watchful insect and pest.
- Barseem: Stop cutting if crop used for seed production and moisture should be maintained.
- Animal: Balanced diet should be given for milch animal. Fresh water used for drinking 3 to 4 time and bathing should be taken up at morning and evening. The routine immunization of animals becomes necessary since disease decrease milk production capacity among milch animals if need concerned near Veterinary hospital.



SAT : INSAT-3D IMG  
Visible Count 0.65 um  
LIC Mercator

16-04-2020/(0800 to 0827) GMT  
16-04-2020/(1330 to 1357) IST

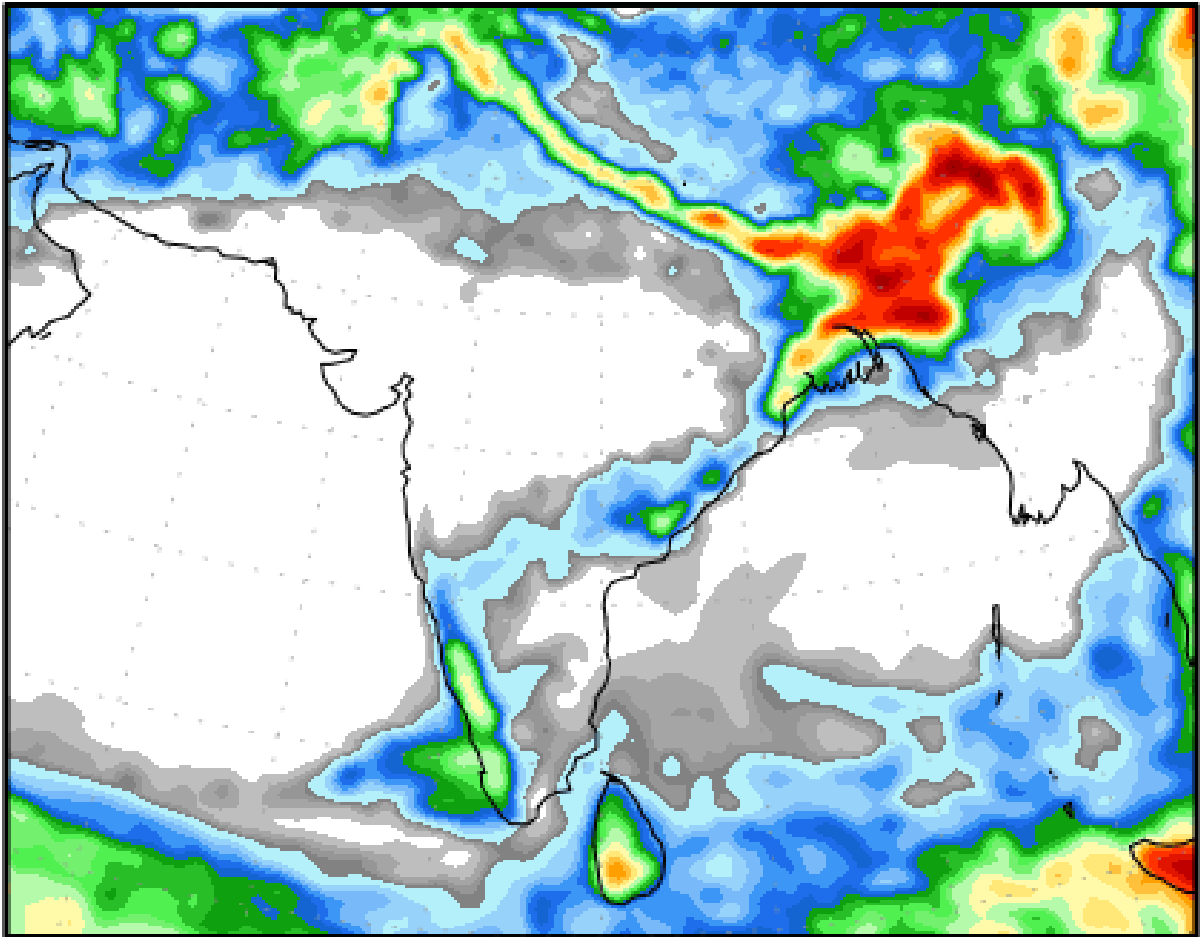


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IMD, DELHI

**Figure: 1. Latest available satellite picture as on 16 April 2020 at 1357 Hrs (IST). (Source: IMD).**



**Figure:2. Precipitation forecast for 16 to 24 April 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.*