

# All India Coordinated Research Project on Agrometeorology

## CRIDA, Santoshnagar, Hyderabad – 500 059

### Daily Crop Weather Information as on 09 April 2021

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

#### Significant Weather Features (IMD)

- A cyclonic circulation lies over Bihar & adjoining East Uttar Pradesh and another cyclonic circulation lies over south Madhya Pradesh & neighbourhood at lower levels and a trough at 1.5 km above mean sea level runs roughly along longitude 86°E to the north of latitude 22°N. Under the influence of these systems:
  - i) Isolated to scattered rainfall with thunderstorm, lightning & gusty winds (30-40 kmph) very likely over most parts of East and Central India during next 4 days. Isolated hailstorm very likely over Vidarbha on 09th & 10th; over Chhattisgarh, Bihar, West Bengal & Sikkim and Odisha on 09th April, 2021.
- Under the influence of winds from Bay of Bengal and wind confluence at lower level over Northeast India:
  - i) Scattered to widespread rainfall very likely over Northeast India (Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura) on 09th April.
  - ii) Thunderstorm, lightning & gusty winds (30-40 kmph) at isolated places very likely over Northeast India during next 3 days. iii) Isolated heavy rainfall also very likely over Arunachal Pradesh on 09th & 10th and over Assam & Meghalaya on 09th April, 2021.
- Due to a north-south trough from Vidarbha to south interior Tamilnadu and wind confluence at lower level over south peninsular India;
  - i) Isolated to scattered rainfall with thunderstorm, lightning & gusty winds (30-40 kmph) very likely over most parts of south peninsular India during next 5 days.
  - ii) Isolated heavy rainfall very likely over Kerala & Mahe and adjoining Coastal Karnataka on 12th & 13th April.
- Two fresh Western Disturbances are likely to affect Western Himalayan Region one from the night of 10th April and another from the night of 13th April. Under their influence:
  - i) Isolated to scattered rainfall/snowfall with thunderstorm & lightning during 11th-14th April and scattered to fairly widespread rainfall/snowfall with

thunderstorm & lightning during 15th-17th April likely over Western Himalayan Region.

ii) Isolated rainfall with thunderstorm & lightning also likely over adjoining plains of Northwest India during 15th-16th April

- 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 Sub-Himalayan West Bengal & Sikkim; at many places over Arunachal Pradesh; at a few places over Gangetic West Bengal, Assam & Meghalaya and Nagaland Manipur, Mizoram & Tripura and at isolated places over Andaman & Nicobar Islands, East Uttar Pradesh, Odisha, Bihar, Jharkhand, East Madhya Pradesh, Vidarbha, Chhattisgarh, Himachal Pradesh, Uttarakhand, Konkan & Goa, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana, Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at a few places over East Uttar Pradesh and at isolated places over Vidarbha, Chhattisgarh, Odisha, West Bengal & Sikkim, Assam & Meghalaya, Tripura and North Interior Karnataka.
- Hailstorm observed at isolated places over Vidarbha, Chhattisgarh, Odisha and Sub-Himalayan West Bengal & Sikkim.
- Maximum Temperature Departures as on 08-04-2021: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Jharkhand; at a few places over East Madhya Pradesh; at isolated places over Gangetic West Bengal, Vidarbha and Saurashtra & Kutch; above normal (1.6°C to 3.0°C) at most places over Uttarakhand; at many places over East Uttar Pradesh and West Madhya Pradesh; at a few places over West Uttar Pradesh, Chhattisgarh, Gujarat Region and Coastal Karnataka; at isolated places over Himachal Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim, Odisha, Konkan & Goa and Tamilnadu, Puducherry & Karaikal. They were below normal (-1.6°C to -3.0°C) at many places over North Interior Karnataka; at a few places over Marathwada and Lakshadweep; at isolated places over Andaman & Nicobar Islands, Madhya Maharashtra and Coastal Andhra Pradesh & Yanam and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 43.4°C was reported at Chandrapur (Vidarbha) over the country.

- Minimum Temperature Departures as on 09-04-2021: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at many places over Jharkhand, Vidarbha and Marathwada; at a few places over East Madhya Pradesh and Madhya Maharashtra; at isolated places over Bihar and West Madhya Pradesh; above normal (1.6°C to 3.0°C) at most places over Chhattisgarh; at a few places over Gujarat State; at isolated places over East Uttar Pradesh, Gangetic West Bengal and North Interior Karnataka. They are markedly below normal (-5.1°C to Less) at a few places over Haryana, Chandigarh & Delhi and at isolated places over West Uttar Pradesh; appreciably below normal (-3.1°C to -5.0°C) at a few places over Himachal Pradesh and at isolated places over Odisha; below normal (-1.6°C to -3.0°C) at many places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad and Nagaland, Manipur, Mizoram & Tripura; at a few places over Telangana and at isolated places over Assam & Meghalaya, Uttarakhand, Rajasthan, Andaman & Nicobar, Rayalaseema, South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country. Today, the lowest minimum temperature of 12.4°C reported at Karnal (Haryana) over the plains of the country.

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

- 09 April (Day 1): Thunderstorm with lightning, hail & squall (speed reaching 50-60 kmph) very likely at isolated places over Gangetic West Bengal; with lightning & squall (speed reaching 50-60 kmph) at isolated places over Assam & Meghalaya; with lightning, hail & gusty winds (speed reaching 40-50 kmph) at isolated places over Sub-Himalayan West Bengal & Sikkim, Bihar and Odisha; with lightning, hail & gusty winds (speed reaching 30-40 kmph) at isolated places over Vidarbha and Chhattisgarh; with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places over Nagaland, Manipur, Mizoram & Tripura; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over southeast Uttar Pradesh, East Madhya Pradesh, Jharkhand, Arunachal Pradesh and Kerala & Mahe and with lightning over Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Tamilnadu, Puducherry & Karaikal and Telangana. Heavy Rainfall very likely at isolated places over Arunachal Pradesh and Assam & Meghalaya.
- 10 April (Day 2): Thunderstorm with lightning, hail & squall (speed reaching 30-40 kmph) very likely at isolated places over Vidarbha; with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places over Assam & Meghalaya; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over East Madhya Pradesh, Chhattisgarh, West Bengal & Sikkim, Odisha, Jharkhand,

Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura and Kerala & Mahe and with lightning over Andaman & Nicobar Islands, Madhya Maharashtra, Marathwada, Telangana and Tamil Nadu, Puducherry & Karaikal. Heavy Rainfall very likely at places over Arunachal Pradesh.

- 11 April (Day 3): Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Arunachal Pradesh, Madhya Maharashtra, Marathawada and Kerala & Mahe and with lightning over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Telangana, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.
- 12 April (Day 4): Thunderstorm with lightning & gusty winds (speed reaching 40-50 kmph) likely at isolated places over Kerala & Mahe; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Sub-Himalayan West Bengal & Sikkim, Odisha, Telangana, Madhya Maharashtra and Marathwada and with lightning over Himachal Pradesh, Uttarakhand, Vidarbha, Chhattisgarh, Andaman & Nicobar Islands, Arunachal Pradesh, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Karnataka, Tamil Nadu, Puducherry & Karaikal and Lakshadweep. Heavy rainfall likely at isolated places over Kerala & Mahe and Coastal Karnataka.
- 13 April (Day 5): Thunderstorm with lightning & gusty winds (speed reaching 40-50 kmph) likely at isolated places over Kerala & Mahe; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Coastal Andhra Pradesh & Yanam, Telangana, Madhya Maharashtra and Marathwada and with lightning over Jammu & Kashmir, Ladakh, GilgitBaltistan & Muzaffarabad, Arunachal Pradesh, Konkan & Goa, Karnataka, Tamil Nadu, Puducherry & Karaikal and Lakshadweep. Heavy rainfall likely at isolated places over Kerala & Mahe and Coastal Karnataka.
- The weather outlook for seven days i.e., 09 Apr to 17 April 2021 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)**

### **Maharashtra-Vidarbha**

#### **Weather condition:**

Weekly average means (14 MW) at AICRPAM Akola centre: T max 41.0°C (normal 39.8°C), T min 23.1°C (normal 21.4°C). RH I 34 % (normal 39 %), RH II 08% (normal 15

%). Evaporation rate 11.3 mm (normal 11.1 mm), Wind speed 2.4 km/hr (normal 6.9 km/hr) and BSH 9.0 hrs (normal 9.2 hrs). Maximum temperature across the week was 1.2°C above normal with a deviation of +0.1 to +2.0°C from normal. Minimum temperature across the week 1.7°C above normal with a deviation of 0.0 to +4.6°C from normal.

### Contingency measure:

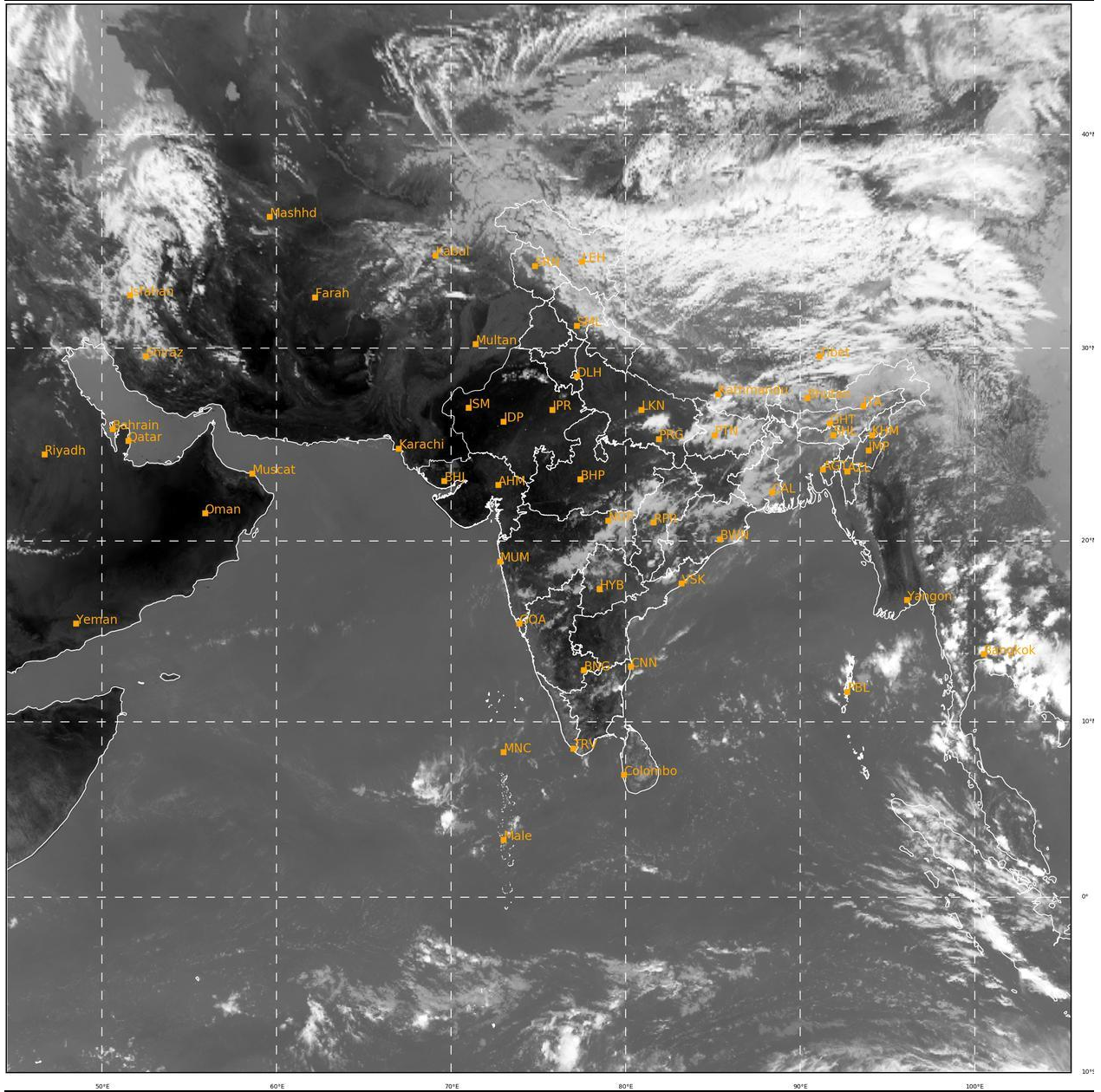
- The forecast (IMD) indicates mainly dry weather on 08 April and thunderstorm accompanied with lightning very likely to occur at isolated places during 09-11 April over Vidarbha. Undertake deep summer ploughing of harvested fields to expose the hibernating insects, larvae/pupa to sun and predator birds are advisable. In view of forecasted isolated light to medium rains during 09-11 April, take into account the soil moisture conditions and local weather condition in planning irrigation in summer, fruit and vegetable crops.
- Undertake light earthing up at peg initiation stage of groundnut for effective peg penetration and to facilitate for increased pod development. Ensure sufficient soil moisture during groundnut peg penetration stage. For management of sap sucking pest- thrips, aphids and jassids- in groundnut undertake spraying of Imidacloprid 17.8 % EC @ 2.5 ml OR lambda cyhalothrin 5% @ 6 ml OR quinalphos 25% @ 14 ml per 10 litres of water. For control of tikka disease in groundnut undertake spray of Chlorothalonil 75%WP @20 g OR Propiconazole 25% EC 10 ml OR Tebuconazole 25.9% EC @ 10 ml per 10 litres of water. depending upon the severity of disease if needed second spray can be undertaken after 15 days alternating the fungicide.
- Undertake need based inter-culture operation in sunflower and keep the crop weed free up to 45 days, being critical period of crop-weed competition. Undertake timely spray for control of jassids/thrips in sunflower by using Imidacloprid 17.8 % @ 2.0 ml in 10 liters of water. Take into account the soil type and soil moisture status in planning need based irrigation in sesame. Ensure sufficient soil moisture during post germination/early vegetative phase of greengram and take into account the soil moisture status in planning need based irrigation. In view of forecasted isolated light to medium rains during 09-11 April, undertake remaining harvesting of matured late sown wheat crop and keep the harvested produce in safer place.
- Undertake threshing of earlier harvested wheat crop and keep threshed produce at safer place. In summer months mulching around tree trunk up to 5-10 cm is advisable with wheat straw, paddy straw or uprooted weeds so that, evaporation of water due to high temperature can be minimized which helps in reducing fruit

crop. summer vegetables like bitter gourd, tinda, ridge gourd, smooth gourd, bottle gourd, cowpea, clusterbean, coriander, etc. can be initiated during this period.

- Undertake need based spray for onion and garlic for control of sucking pests and fungal disease by spraying of quinalphos 25 % EC 12 ml + mancozeb 25 g + sandovit stickers in 10 liters of water.
- Ensure protection of farm animals during thunderstorm/lightning. For livestock green feed during ensuing summer, undertake sowing of forage crops (fodder maize-African tall, fodder sorghum-Pusa chari, MP Chari, SSG 898), provided irrigation is available at later stages.

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

09-04-2021/(0800 to 0826) GMT  
09-04-2021/(1330 to 1356) IST

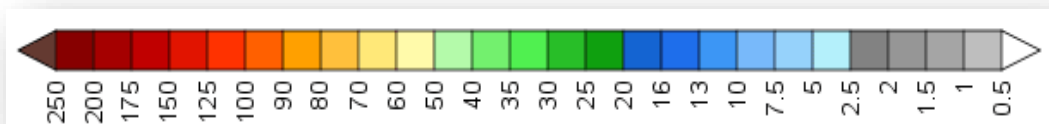
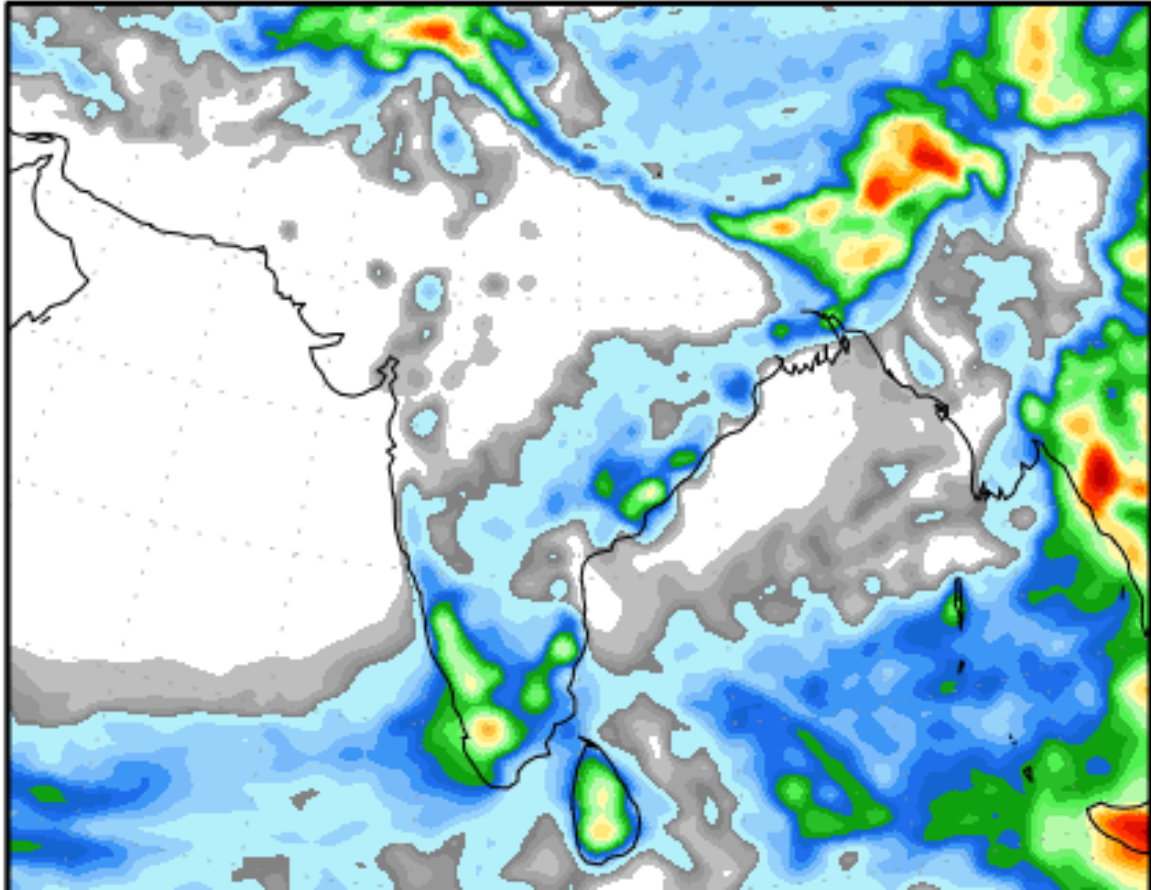


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IMD,DELHI

Figure: 1. Latest available satellite picture as on 09 April 2021 at 1356 Hrs (IST). (Source: IMD).



**Figure:2. Precipitation forecast for 09 to 17 Apr 2021 (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.*