

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

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

### **Daily Crop Weather Information as on 01 April 2021**

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

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

- A Low Pressure Area lies over south Andaman Sea & neighbourhood. It is likely to become more marked over central parts of Andaman Sea & neighbourhood during next 12 hours and likely to concentrate into a Depression over the same region during subsequent 24 hours. Under its influence:
  - (i) Widespread to scattered rainfall very likely over Andaman & Nicobar Islands during next 5 days and isolated heavy falls on 01st April. (ii) Isolated thunderstorm, lightning & gusty winds also likely over Andaman & Nicobar Islands during next 2 days.
  - (ii) Fishermen are advised not to venture into South Andaman Sea & adjoining Southeast Bay of Bengal on 01st April and into North Andaman Sea on 02nd April.
- Under the influence of strong lower level south-westerly winds from the Bay of Bengal and other favourable meteorological conditions, fairly widespread to widespread rainfall with isolated thunderstorm/lightning & gusty winds very likely over Northeast India during 01st-02nd April.
- Maximum temperatures have fallen by 2-4°C over most parts of Northwest and Central India leading to abatement of heat wave conditions from these regions.
- Strong Surface Winds (speed reaching 30-40 kmph) over parts of Punjab, Rajasthan, Haryana, Chandigarh & Delhi, Uttar Pradesh, Madhya Pradesh during next 24 hours.
- The images showing the latest satellite picture in the figure. 1.

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

- Rain/Thundershowers observed (from 0830 hours IST to 1730 hours IST of yesterday): at most places over Arunachal Pradesh at a few places over Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim and at isolated places over Assam & Meghalaya, Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Lakshadweep and Kerala & Mahe.

- Thunderstorm observed (from 0830 hours IST to 0530 hours IST of today): at isolated places over Assam & Meghalaya and Tripura.
- Heat Wave Conditions to Severe Heat Wave Conditions observed in some pockets over Gangetic West Bengal, Odisha, Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal.
- Maximum Temperature Departures as on 31-03-2021: Maximum temperatures were markedly above normal (5.1°C or more) at a few places over Gangetic West Bengal and Coastal Andhra Pradesh & Yanam and at isolated places over Odisha and Telangana; appreciably above normal (3.1°C to 5.0°C) at many places over Uttarakhand and West Uttar Pradesh; at a few places over Himachal Pradesh, Haryana, Chandigarh & Delhi, Saurashtra & Kutch, South Interior Karnataka and Rayalaseema; above normal (1.6°C to 3.0°C) at most places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad and North Interior Karnataka; at many places over Punjab, Rajasthan, Gujarat Region, Madhya Maharashtra, Marathawada, East Uttar Pradesh, Chhattisgarh, Madhya Pradesh and Vidarbha; at a few places over Coastal Karnataka and Tamil Nadu, Puducherry & Karaikal. They were markedly below normal (-5.1°C or less) at a few places over Arunachal Pradesh; appreciably below normal (-3.1°C to -5.0°C) at a few places over Bihar and Sub-Himalayan West Bengal & Sikkim and Nagaland, Manipur, Mizoram & Tripura and below normal (-1.6°C to -3.0°C) at many places over Andaman& Nicobar Islands and at a few places over Bihar and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 44.2°C was reported at Bhubaneshwar (Odisha) over the country.
- Minimum Temperature Departures as on 31-03-2021: Minimum temperatures were markedly above normal (5.1°C or more) at a few places over West Rajasthan, Madhya Pradesh, Chhattisgarh and Jharkhand; appreciably above normal (3.1°C to 5.0°C) at most places over East Uttar Pradesh; at many places Haryana, Chandigarh & Delhi, West Uttar Pradesh and Gujarat state; at a few places over East Rajasthan, Odisha, Bihar, Gangetic West Bengal; at isolated places over Himachal Pradesh; above normal (1.6°C to 3.0°C) at many places over Coastal Karnataka, Coastal Andhra Pradesh & Yanam and Sub-Himalayan West Bengal & Sikkim; at a few places over Lakshadweep, South Interior Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal, Rayalseema, Andaman & Nicobar Islands and Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad. They were below normal (-1.6°C to -3.0°C) at a few places over Madhya Maharashtra and at isolated places over Telangana and near normal over rest parts of the

country. Yesterday, the lowest minimum temperature of 12.0°C was reported at Una (Himachal Pradesh) over the plains of the country.

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

- 01 April (Day 1):Thunderstorm with lightning & squall (speed reaching 50-60 kmph) very likely at isolated places over Andaman & Nicobar Islands; with lightning & squall (speed reaching 45-55 kmph) at isolated places over Sub-Himalayan West Bengal & Sikkim; with lightning and gusty winds (speed reaching 30-40 kmph) at isolated places over Arunachal Pradesh and Assam & Meghalaya and with lightning at isolated places over Kerala & Mahe. Heavy rainfall very likely at isolated places over Andaman & Nicobar Islands. Heat Wave Conditions in some pockets with Severe Heat Wave Conditions in isolated pockets very likely over Odisha and Heat Wave Conditions in isolated pockets over Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal. Squally weather (wind speed reaching 40-50 kmph gusting to 60 kmph) very likely over south Andaman Sea & adjoining Southeast Bay of Bengal. Fishermen are advised not to venture into these areas. Strong winds (speed reaching 40-50 kmph) over Westcentral Bay of Bengal, along & off Andhra Pradesh coast and Gulf of Mannar, along & off Tamil Nadu coast.
- 02 April (Day 2):Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over SubHimalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Odisha and with lightning at isolated places over Kerala & Mahe. Heat Wave Conditions very likely in isolated pockets over Coastal Andhra Pradesh & Yanam, Tamilnadu, Puducherry & Karaikal and Saurashtra & Kutch. Squally weather (wind speed reaching 45-55 kmph gusting to 65 kmph) very likely over north Andaman Sea. Fishermen are advised not to venture into these areas. Strong winds (speed reaching 40-50 kmph) over Westcentral Bay of Bengal, along & off Andhra Pradesh coast, Gulf of Mannar, along & off Tamil Nadu coast and Comorin area.
- 03 April (Day 3): Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Gangetic West Bengal and Odisha and with lightning at isolated places over Kerala & Mahe. Heat Wave Conditions very likely in isolated pockets over Tamilnadu, Puducherry & Karaikal and Saurashtra & Kutch.
- 04 April (Day 4):Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Gangetic West Bengal and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan &

Muzaffarabad and Kerala & Mahe. Heat Wave Conditions very likely in isolated pockets over Tamilnadu, Puducherry & Karaikal.

- 05 April (Day 5): Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Gangetic West Bengal and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi and Kerala & Mahe. Heat Wave Conditions very likely in isolated pockets over Tamilnadu, Puducherry & Karaikal.
- The weather outlook for seven days i.e., 01 Apr to 09 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 (13 MW) at AICRPAM Akola centre: T max 40.1°C (normal 38.7°C), T min 21.0°C (normal 20.1°C). RH I 42 % (normal 39 %), RH II 11% (normal 16 %). Evaporation rate 11.8 mm (normal 10.6 mm), Wind speed 4.3 km/hr (normal 6.5 km/hr) and BSH 9.2 hrs (normal 9.1 hrs). Maximum temperature across the week was 1.5°C above normal with a deviation of +0.6 to +2.5°C from normal. Minimum temperature across the week 1.0°C below normal with a deviation of -2.9 to +5.5°C from normal.

#### **Contingency measure:**

- The forecast (IMD) indicates mainly dry weather during 01 March to 05 March and no large change in maximum temperature over Vidarbha during next 2 days. Taking advantage of available soil moisture deep summer ploughing of harvested fields to expose the hibernating insects, larvae/pupa to sun and predator birds is advisable.
- 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. Under prevailing evaporative demand (8-10 mm/day) apply irrigation in groundnut at an interval of 6 to 8 days, irrigating in the early morning or evening hours. 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.

- 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. Post emergence sunflower critical stages of irrigation include growing bud, flowering and seed development stages. Under prevailing evaporative demand (8-10 mm/day) apply irrigation in sunflower at an interval of 6 to 8 days, irrigating in the early morning or evening hours. Take into account the soil type and soil moisture status in planning need based irrigation in sesame.
- Under prevailing evaporative demand (8-10 mm/day) apply irrigation in sesame at an interval of 6 to 8 days, irrigating in the early morning or evening hours. 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.
- 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.
- Complete harvesting of orange orchards (Mriga bahar) followed by light irrigation and pruning of dried branches. Cut end of branches should be smeared with Bordeaux paste (1:1:10) and undertake spray of carbendazim @ 10 g/10 litres of water. To protect from summer heat, make provision of shade/thatches (made of harvested cotton/pigeonpea stalks or dried grass or green net) to individual young/new fruit plantation crops along with basin mulching.
- Cultivation of summer vegetables like bitter melon, tinda, ridge gourd, smooth gourd, bottle gourd, cowpea, clusterbean, coriander, etc. can be initiated during this period.
- Ensure availability of sufficient feed/forage, proper grazing time (morning/evening), provision of enough water as well as shelter during summer heat conditions for farm livestock. 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.

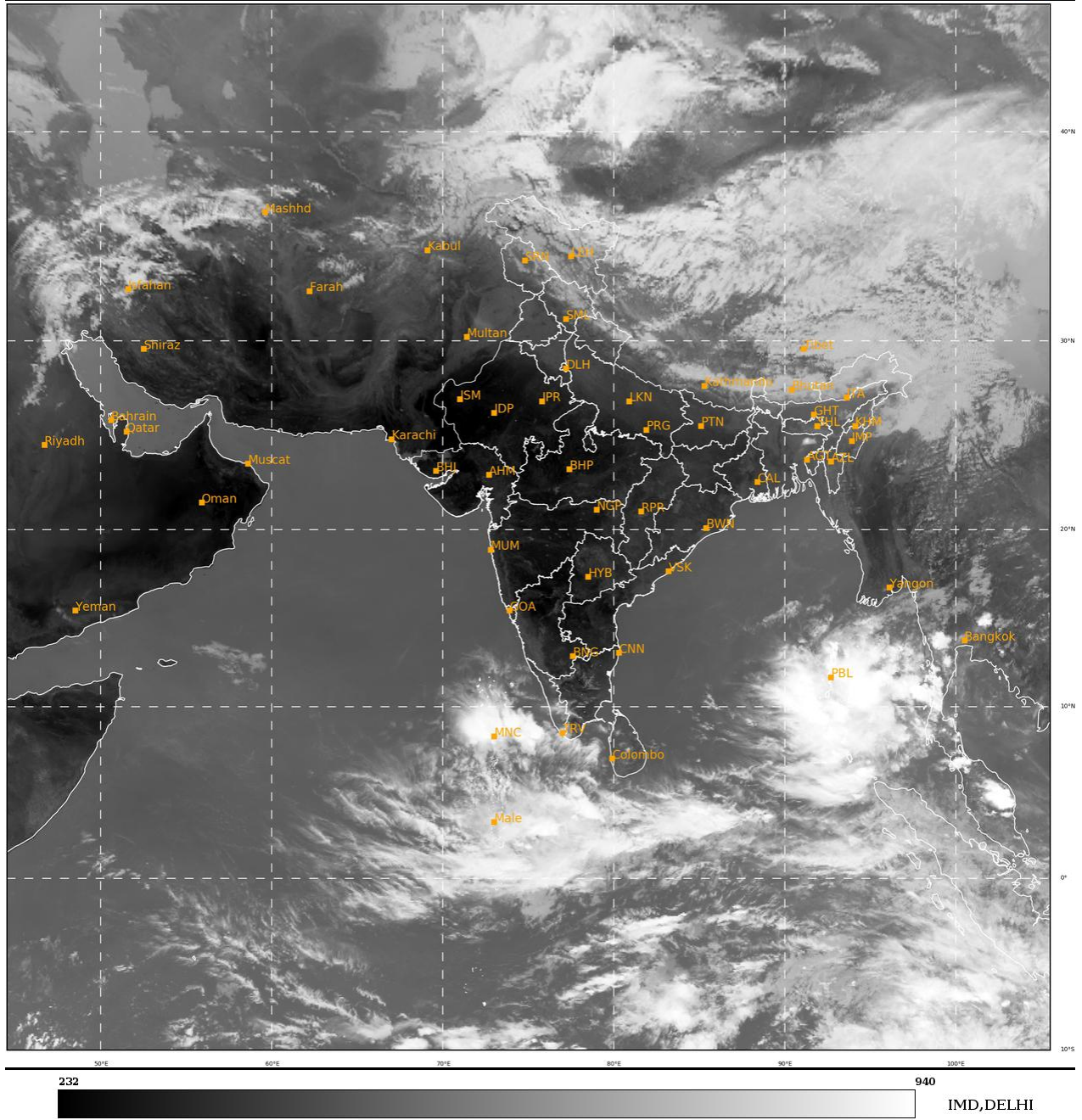
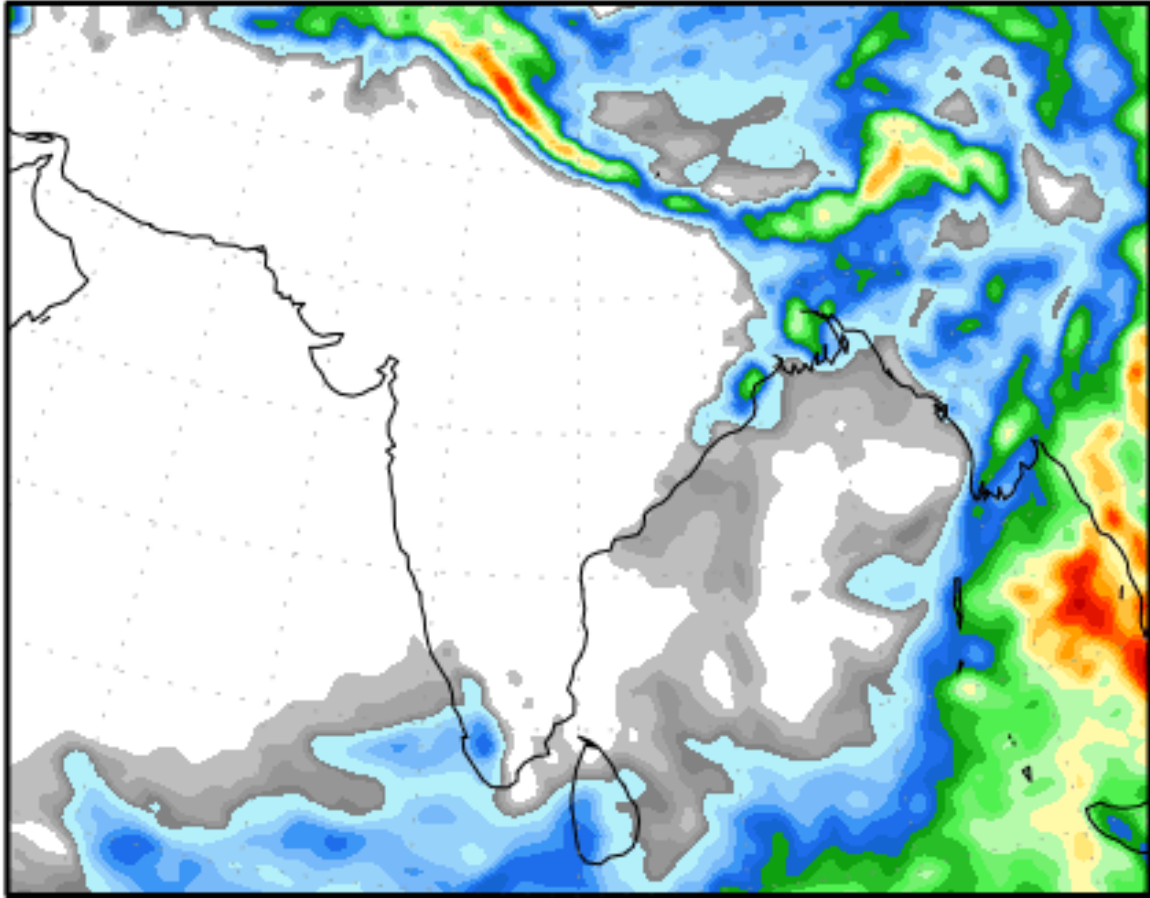


Figure: 1. Latest available satellite picture as on 01 April 2021 at 1356 Hrs (IST). (Source: IMD).



**Figure:2. Precipitation forecast for 01 Apr to 09 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.*