

**All India Coordinated Research Project on Agrometeorology**  
**CRIDA, Santoshnagar, Hyderabad – 500 059**

**Daily Crop Weather Information as on 25 April 2022**

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

**Significant Weather Features (IMD)**

- Rainfall/thunderstorm Forecast & Warnings:
- Under the influence of north-south trough over East India and strong southwesterly winds from Bay of Bengal to northeastern States at lower tropospheric levels: i) Fairly widespread/widespread rainfall very likely over Arunachal Pradesh, Assam-Meghalaya and isolated/scattered rainfall over Nagaland-Manipur-Mizoram-Tripura & Sub-Himalayan West Bengal & Sikkim during next 5 days. Isolated heavy rainfall very likely over Arunachal Pradesh on 26th & 29th and over Assam & Meghalaya during 26th-29th April. ii) Thunderstorm/lightning/gusty winds (speed reaching 30-40 kmph) at isolated places very likely over Arunachal Pradesh, Assam, Meghalaya & Nagaland-Manipur-Mizoram-Tripura during next 3 days.
- Due to trough/wind discontinuity over peninsular India in the lower tropospheric levels:
  - i) Isolated to scattered rainfall with thunderstorm/lightning very likely over Kerala, Karnataka, Tamil Nadu, Andhra Pradesh, Telangana and Rayalaseema during next 5 days.
  - ii) Isolated heavy rainfall very likely over north Kerala on 25th April, 2022.
- Under the influence of the Western Disturbance, light isolated to scattered rainfall accompanied with isolated thunderstorm/lightning very likely over Western Himalayan Region and Duststorm over adjoining plains of Punjab, Haryana & West Rajasthan on 25th April, 2022.
- Under the influence of a fresh Western Disturbance; light/moderate isolated to scattered rainfall accompanied with isolated thunderstorm/lightning very likely over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh on 28th & 29th and over Uttarakhand on 29th April, 2022.
- Strong surface winds (speed reaching 25-35 kmph) very likely over Punjab, Haryana, Chandigarh & Delhi, West Rajasthan on 28th & 29th and over East Rajasthan & Uttar Pradesh on 29th April.

- Heat wave conditions very likely to prevail in isolated pockets over Gujarat state & Odisha during next 5 days; north Coastal Andhra Pradesh & SubHimalayan West Bengal during 25th-27th; West Rajasthan & Madhya Maharashtra during 26th-29th; Bihar, Jharkhand, Gangetic West Bengal during 25th-28th and Punjab, south Haryana-Delhi, East Rajasthan, south Uttar Pradesh, Madhya Pradesh and Vidarbha during 27th-29th April, 2022.
- The images showing the latest satellite picture in the figure. 1.

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

- Rainfall/thundershower observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at many over Arunachal Pradesh; at a few places over Assam-Meghalaya and at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, West Bengal-Sikkim, Odisha, KonkanGoa, Madhya Maharashtra, Coastal Andhra Pradesh-Yanam, Kerala-Mahe and Tamil Nadu, Puducherry-Karaikal.
- Heavy Rainfall observed at isolated places over Arunachal Pradesh.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Assam & Meghalaya, Gangetic West Bengal, Odisha, Chhattisgarh, Konkan & Goa, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal.
- Heat wave conditions prevailed in isolated pockets over Saurashtra & Kutch.
- Maximum Temperature Departures (as on 24-04-2022): Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Gangetic West Bengal; at a few places over Saurashtra & Kutch and Coastal Andhra Pradesh & Yanam; at isolated places over Bihar, Sub-Himalayan West Bengal & Sikkim, Odisha, West Rajasthan and Gujarat Region; above normal (1.6°C to 3.0°C) at most places over Himachal Pradesh and Jharkhand; at many places over Uttarakhand, East Rajasthan, Madhya Pradesh, Konkan & Goa and Coastal Karnataka; at a few places over Jammu & Kashmir, Ladakh, GilgitBaltistan & Muzaffarabad and East Uttar Pradesh; at isolated places over Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe, Tamil Nadu-PuducherryKaraikal and Andaman & Nicobar Islands. They were markedly below normal (-5.1°C or less) at isolated places over Arunachal Pradesh; appreciably below normal (-3.1°C to -5.0°C) at a few places over Madhya Maharashtra; at isolated places over Assam & Meghalaya; below normal (-1.6°C to -3.0°C) at many places over Marathwada and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 44.0°C was reported at Barmer (West Rajasthan).

- Minimum Temperature Departures (as on 25-04-2022): Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at a few places over Punjab, Haryana-Chandigarh-Delhi and West Rajasthan; at isolated places over Gangetic West Bengal and Nagaland, Manipur, Mizoram & Tripura; above normal (1.6°C to 3.0°C) at most places over Sub-Himalayan West Bengal & Sikkim; at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan Muzaffarabad, Himachal Pradesh, West Madhya Pradesh, Odisha and Coastal Andhra Pradesh & Yanam; at isolated places over East Uttar Pradesh, East Madhya Pradesh, Gujarat state, Madhya Maharashtra and Rayalaseema. They are below normal (-1.6°C to -3.0°C) at isolated places over Tamilnadu, Puducherry & Karaikal and near normal over rest parts of the country. Today, the lowest minimum temperature of 13.5°C is reported at Pantnagar (Uttarakhand) over the plains of the country.

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

- 25 April (Day 1): Thunderstorm accompanied with lightning & gusty winds (speed 30-40 kmph) at isolated places very likely over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Kerala & Mahe and with lightning at isolated places over Arunachal Pradesh, Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Konkan & Goa, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Rayalaseema, Karnataka, Tamilnadu-Puducherry-Karaikal and Lakshadweep. Duststorm at isolated places very likely over Punjab, Haryana, Chandigarh & Delhi and West Rajasthan. Heavy rainfall at isolated places very likely over north Kerala. Heat wave conditions in isolated pockets very likely over Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Gujarat State and Coastal Andhra Pradesh.
- 26 April (Day 2): Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph) at isolated places very likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura and with lightning at isolated places over Arunachal Pradesh, Konkan & Goa, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Tamilnadu-Puducherry-Karaikal and Kerala & Mahe. Heavy rainfall at isolated places very likely over Arunachal Pradesh and Assam & Meghalaya. Heat wave conditions in isolated pockets very likely over West Rajasthan, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Gujarat State, north Madhya Maharashtra and Coastal Andhra Pradesh.
- 27 April (Day 3): Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph) at isolated places very likely over Assam & Meghalaya; with lightning/gusty winds (speed 30-40 kmph) at isolated places over Nagaland, Manipur, Mizoram & Tripura and with lightning at isolated places over Madhya

Maharashtra, Telangana and Kerala & Mahe. Heavy rainfall at isolated places very likely over Assam & Meghalaya. Heat wave conditions in isolated pockets very likely over Punjab, south Haryana-Delhi, south Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Gujarat State, north Madhya Maharashtra and Coastal Andhra Pradesh.

- 28 April (Day 4): Thunderstorm accompanied with lightning at isolated places likely over Jammu-Kashmir-Ladakh Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Sub-Himalayan West Bengal & Sikkim, Coastal Andhra Pradesh Yanam and Kerala & Mahe. Heavy rainfall at isolated places likely over Assam & Meghalaya. Heat wave conditions in isolated pockets likely over Punjab, south Haryana-Delhi, south Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Bihar, Jharkhand, Gangetic West Bengal, Odisha, Gujarat State and north Madhya Maharashtra.
- 29 April (Day 5): Thunderstorm accompanied with lightning at isolated places likely over Jammu-Kashmir-Ladakh Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Bihar, Jharkhand, West Bengal & Sikkim, Coastal Andhra Pradesh-Yanam and Kerala & Mahe. Heavy rainfall at isolated places likely over Arunachal Pradesh and Assam & Meghalaya. Heat wave conditions in isolated pockets likely over south Haryana-Delhi, south Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Odisha, Gujarat State and north Madhya Maharashtra.
- The weather outlook for seven days i.e., 25 Apr to 03 May 2022 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)

### **Jammu**

#### **Weather condition:**

Mainly clear weather prevailed during this week with 4.6 mm rainfall in one rainy day. The maximum remained above normal by 3 to 5°C and ranged from 34.6 to 40.0°C. While the minimum temperature remained variable and ranged from 16.5 to 20.0 °C. The morning and afternoon relative humidity were observed in the range of 40 to 65 % and 16 to 33 %, respectively. The evaporation and sunshine remained in the range of 8.0 to 9.8 mm/day and 1.5 to 7.8 hrs, respectively.

#### **Contingency measure:**

- Wheat: Early & normal sown Physiological maturity Crop is at physiological maturity. Due to clear weather, harvest the mature crop in order to prevent the

shattering of grains. Threshing of crop is recommended after proper drying for 2-3 days.

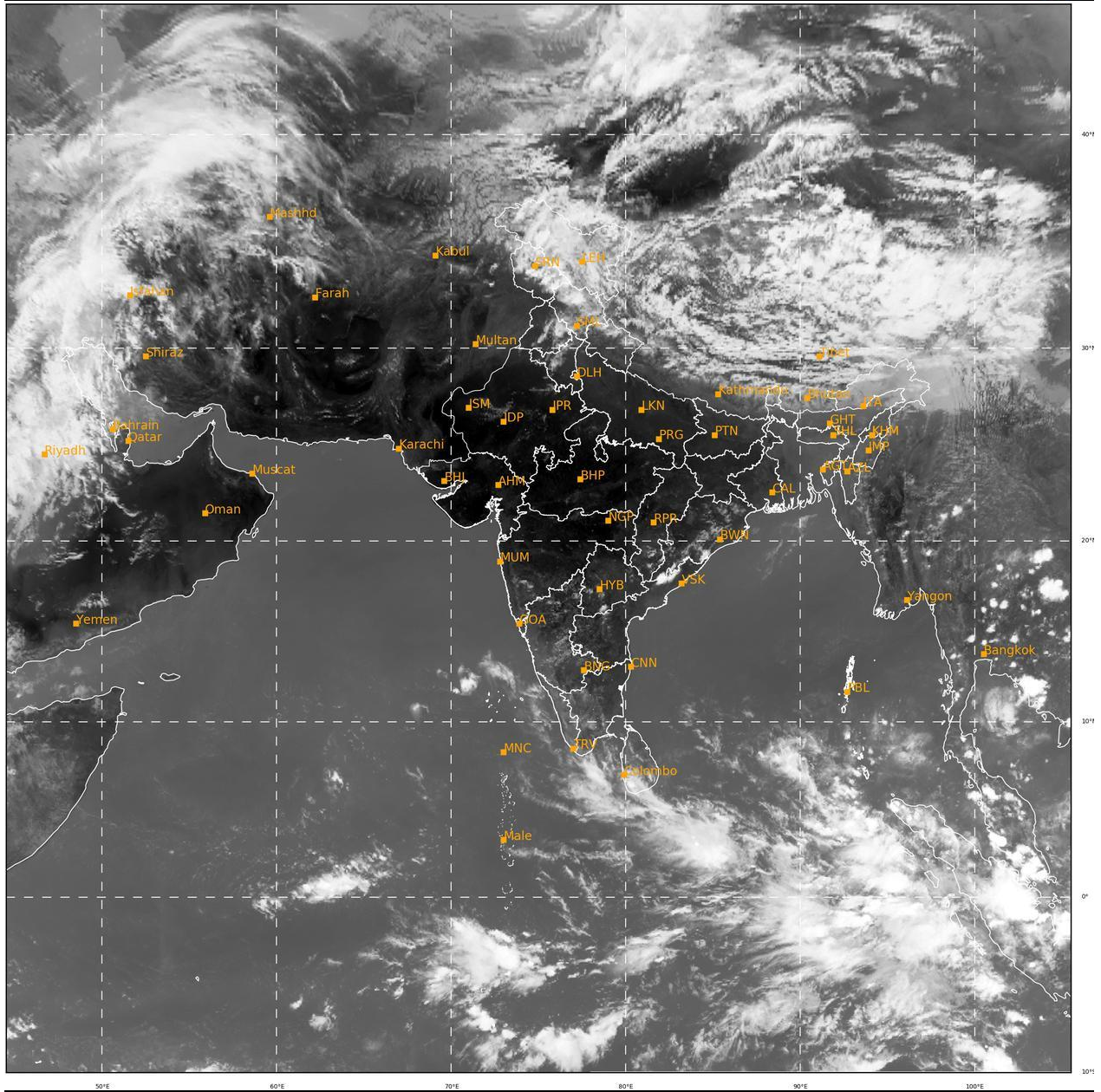
- Oilseeds: Mustard: Physiological maturity: Harvesting and threshing of mustard crop is recommended after proper stacking for 3-4 days.
- Pulses Summer pulses (moong/mash) Gram/lentil/Field pea: Sowing Harvesting Farmers may complete sowing of Summer Moong and Mash without any further delay with seed @ 1kh/kanal. Harvesting and threshing of crop is recommended due to clear weather for next 5 days.
- Fodder Summer fodder: Sowing Farmers may go for sowing of mixed summer fodder (maize+cowpea+charri) and bajra.
- Vegetables: Tomato/chilly Cucurbits Flowering/fruited Vegetative Give Irrigation as per requirement of different vegetable crops. Monitor tomato crop for leaf curl. Remove virus infected plants. Spray imidacloprid @ 0.5ml/lit of water to check further spread of disease by whitefly. Black spots on leaves and drying of vines due to Downey mildew, restrict irrigation to the crop. Spray metalaxyl in combination with carbendazim @ 1gm /lit at 7 days interval to control the disease.
- Floriculture: Chrysanthemum Winter Marigold Summer season marigold Mother Stock Seed maturation Flowering Grooming of mother plant is recommended. Immediate harvesting of seed is recommended. Provide Shade net to protect from scorching heat
- Button mushroom Oyster mushroom Button Mushroom: Spawn run Fruiting Open the bags after complete Spawn run (15-20 days). Maintain temperature to 22-28°C and humidity to 85-90%. Temperature to be maintained for Button Mushroom produced in upper reaches of Jammu region is 16-18°C and humidity to be maintained at 85-90%.
- Horticulture: Mango/Citrus/ Guava Young/ Bearing White wash the tree trunks with slaked lime and copper sulphate against sunburn and fungal diseases. Spray 2,4-D @ 10ppm against citrus fruit drop in citrus. Spray dimethoate @1ml/lit against hoppers in mango.
- Sericulture Silkworm crop: Harvested cocoon crop Keep the bags in wire mesh covered racks to avoid rodent attack till marketing. Keep cocoon bags in well ventilated rooms to avoid dampness.
- Apiculture: It is the right time to start bee keeping especially for beginners as pollen and nectar are in plenty and bee activity is at its peak. Migrate bee colonies near to floral resources and shady places. Prepare colonies for honey flow. Ensure water availability near beehives.

- Poultry Avoid hurdling of chicks. Adequate clean drinking water should be available all the time. Provide starter feed for first 14 days and provide finisher feed from 15th day till sale. Proper hygiene should be maintained. Give vaccination against infectious bursal dermatitis IBD & Gumbroo at 7th & 14th day after birth.
- Fisheries: Carp farming Advance Fingerlings/ yearlings Add supplementary feed (mustard oilcake and Rice/Wheat bran) @ 3% of total fish biomass on daily basis. Farmers may go for partial harvesting/sale of marketable size Farmers should go for liming (250-300kg/ha/yr) and manuring applications (10-20tons/ha/yr) at monthly interval in equal doses. Farmers who are going to stock new seeds of fish in next month may go for pre-stocking management practices such as dewatering and sun drying (if possible), liming, manuring etc.
- Live stock: Dairy animals/ Provide hay of green forage like stala, lobia, maize, jowar and bajra etc. with kadbi and other green grasses to the milch animals to increase milk production and also to prevent from bloat (aafara). \*Cover face with thick cloth or wear mask and maintain social distance while doing agricultural operations in field



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

25-04-2022/(0730 to 0756) GMT  
25-04-2022/(1300 to 1326) IST

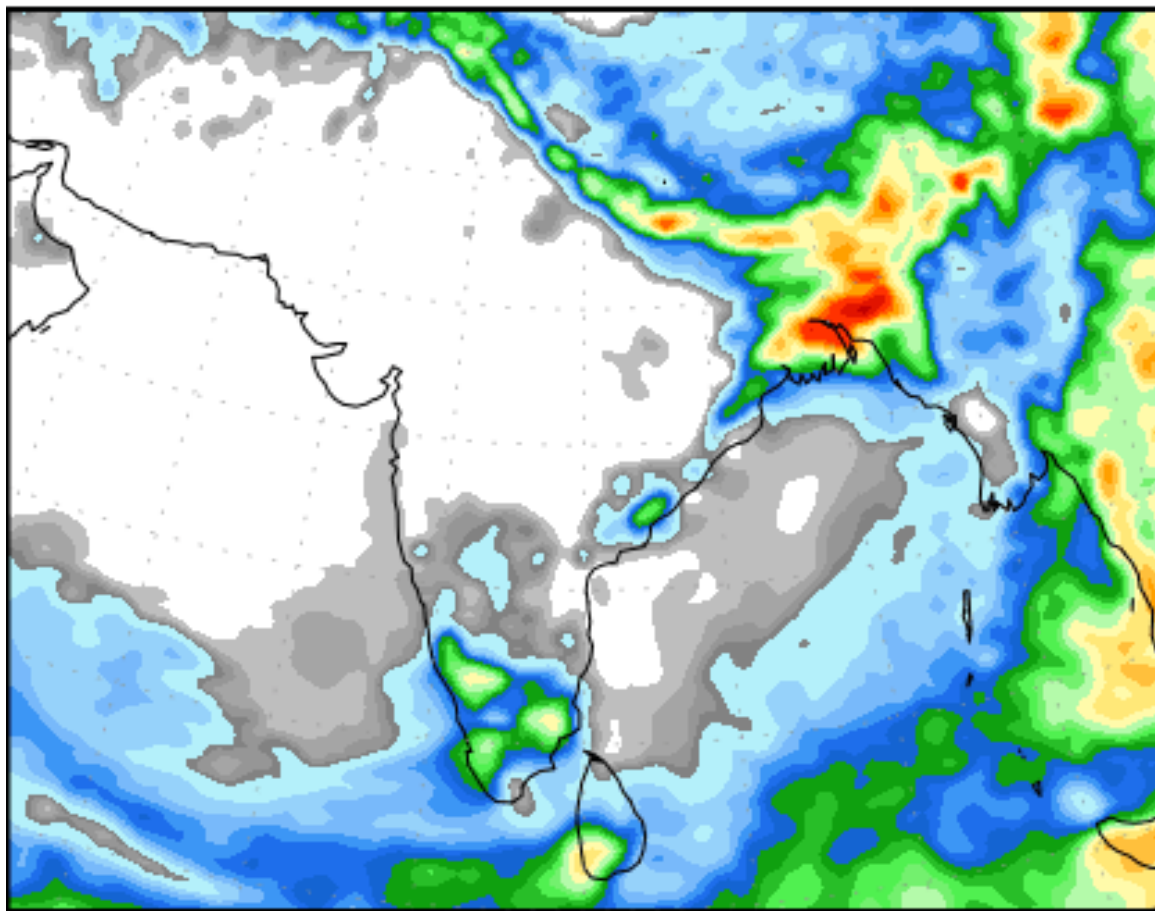


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IMD, DELHI

Figure: 1. Latest available satellite picture as on 25 Apr 2022 at 1356 Hrs (IST). (Source: IMD).



**Figure:2. Precipitation forecast for 25 Apr to 03 May 2022 (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.*