

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

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

### **Daily Crop Weather Information as on 25 March 2022**

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

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

- Forecast & Warnings:
- Under the influence of trough/wind discontinuity over south Peninsular India at lower tropospheric levels:
- Light to moderate isolated/scattered rainfall very likely over Kerala-Mahe, Tamilnadu-Puducherry-Karaikal and Karnataka during next 5 days and over Coastal Andhra Pradesh on 25th & 26th March and over Telangana & Rayalaseema on 25th March.
- Isolated light to moderate thunderstorm/lightning activity also very likely over Karnataka on 25th March, over Tamil Nadu-Puducherry-Karaikal and over Kerala-Mahe on 25th & 26th March, 2022.
- Isolated heavy rainfall also likely over South Interior Karnataka & south Tamilnadu on 25th March and over Kerala-Mahe on 25th & 26th March, 2022.
- Due to strong southwesterly winds from Bay of Bengal to northeastern states at lower tropospheric levels;
- Light to moderate fairly widespread/widespread rainfall very likely over Arunachal Pradesh, Assam-Meghalaya & Nagaland-Manipur-Mizoram-Tripura on 25th & 26th and isolated light rainfall very likely over the region during 27th-29th March.
- Isolated thunderstorm/lightning/gusty winds over Northeast India on 25th & 26th March, 2022.
- Isolated heavy rainfall also likely over Arunachal Pradesh & Assam-Meghalaya on 25th March, 2022.
- Heat Wave conditions Forecast:
- Heat Wave conditions in isolated pockets very likely over south Haryana, West Rajasthan and West Madhya Pradesh on 28th & 29th March 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 most places over Arunachal Pradesh; at many places over South Interior Karnataka; at a few places over Assam-Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal & North Interior Karnataka and Kerala & Mahe and at isolated places over Sub-Himalayan West Bengal-Sikkim, Odisha, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Goa, Madhya Maharashtra, Coastal Andhra Pradesh, Telangana, Tamil Nadu, Puducherry & Karaikal and Andaman & Nicobar Islands.
- Very heavy rainfall observed at isolated places over Meghalaya and heavy rainfall observed at isolated places over Assam and Kerala.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan Muzaffarabad and Kerala & Mahe.
- Heat Wave conditions were not observed in any part of the country.
- Maximum Temperature Departures (as on 24-03-2022): Maximum temperatures were markedly above normal ( $5.1^{\circ}\text{C}$  or more) at many places over Punjab, Himachal Pradesh and Uttarakhand and at isolated places over Assam-Meghalaya; appreciably above normal ( $3.1^{\circ}\text{C}$  to  $5.0^{\circ}\text{C}$ ) at most places over Haryana-Chandigarh-Delhi, West Rajasthan and Jharkhand; at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; at a few places over Sub-Himalayan West Bengal & Sikkim and East Rajasthan and at isolated places over Gangetic West Bengal, Odisha, Madhya Pradesh and Vidarbha; above normal ( $1.6^{\circ}\text{C}$  to  $3.0^{\circ}\text{C}$ ) at most places over Chhattisgarh; at many places over East Uttar Pradesh and Bihar; at a few places over West Uttar Pradesh, Saurashtra & Kutch and Konkan & Goa and at isolated places over Madhya Maharashtra and Tamil Nadu, Puducherry & Karaikal. They were below normal ( $-1.6^{\circ}\text{C}$  to  $-3.0^{\circ}\text{C}$ ) at most places over Coastal Karnataka; at a few places over Andaman & Nicobar Islands and Telangana and near normal over rest parts of the country. Yesterday, the highest maximum temperature of  $42.0^{\circ}\text{C}$  was reported at Akola (Vidarbha) over the country.
- Minimum Temperature Departures (as on 25-03-2022): Minimum temperatures are markedly above normal ( $5.1^{\circ}\text{C}$  or more) at a few places over East Madhya Pradesh and Madhya Maharashtra; at isolated places over West Madhya Pradesh and West Rajasthan; appreciably above normal ( $3.1^{\circ}\text{C}$  to  $5.0^{\circ}\text{C}$ ) at many places over Punjab, Uttar Pradesh, Bihar, Jharkhand, Chhattisgarh, Vidarbha & Marathwada; at a few places over Haryana, Chandigarh & Delhi and at isolated

places over West Bengal & Sikkim, Odisha, Konkan & Goa and Gujarat State; above normal (1.6°C to 3.0°C) at most places over Uttarakhand at many places over Rayalaseema and North Interior Karnataka; at a few places over Telangana, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry Karaikal and Assam & Meghalaya; at isolated places over Himachal Pradesh. They were below normal (-1.6°C to -3.0°C) at a few places over Andaman & Nicobar islands and near normal over rest parts of the country. Today, the lowest minimum temperature of 15.6°C is reported at Chittorgarh (East Rajasthan) over the plains of the country.

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

- 25 March (Day 1): Heavy rainfall at isolated places very likely over Arunachal Pradesh, Assam & Meghalaya, South Interior Karnataka, Kerala-Mahe and south Tamilnadu. Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places very likely over Assam-Meghalaya; (speed reaching 30-40 kmph) at isolated places over Nagaland-Manipur-Mizoram-Tripura and with lightning at isolated places over south Konkan & Goa, south Madhya Maharashtra, Kerala & Mahe, Karnataka, Tamilnadu-Puducherry-Karaikal and Arunachal Pradesh.
- 26 March (Day 2): Heavy rainfall at isolated places very likely over Kerala-Mahe. Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places very likely over Assam-Meghalaya and with lightning at isolated places over Arunachal Pradesh, Nagaland-Manipur-Mizoram-Tripura, Tamilnadu-Puducherry-Karaikal and Kerala-Mahe.
- 27 March (Day 3): Thunderstorm accompanied with lightning at isolated places very likely over Kerala-Mahe.
- 28 March (Day 4): Thunderstorm accompanied with lightning at isolated places likely over Kerala-Mahe. Heat wave conditions in isolated pockets likely over south Haryana, West Rajasthan and West Madhya Pradesh.
- 29 March (Day 5): Thunderstorm accompanied with lightning at isolated places likely over Kerala-Mahe. Heat wave conditions in isolated pockets likely over south Haryana, West Rajasthan and West Madhya Pradesh.
- The weather outlook for seven days i.e., 25 Mar to 02 Apr 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 no rainfall. Both maximum and minimum temperatures remained above normal by 1 to 3°C and ranged from 29.0 to 35.0°C and 11.2 to 15.4°C, respectively. The morning and afternoon relative humidity were observed in the range of 90 to 96 % and 41 to 54 %, respectively. The evaporation and sunshine remained in the range of 3.4 to 5.4 mm/day and 5.6 to 9.0 hrs, respectively.

#### Contingency measure:

- Wheat: Normal sown /Late/Very late sown Anthesis, Ear head, Flag leaf Apply Irrigation in late and very late sown crop. Farmers are advised to rogue out loose smut and karnal bunt affected plants and destroy by burning or deep burying under soil to avoid further dispersal. Spray Rogor 30 EC @ 750 ml in 750 lt. of water, if aphid attack is observed. Monitor crop for yellow rust and leaf spot attack in late/vary late sown crop, if observed apply propiconazole (Tilt) @ 0.1% 2-3 sprays at 15 days interval are recommended. Remove off type plants in early/normal sown crop as it is the right time. Organize campaign for control of rats.
- Rabi pulses: Gram: Pod formation/pod milking: Farmers may go for weeding. Apply bavistin/carbendazim @ 3gm/litre of water to control wilt. Spray chloropyriphos @ 2-3ml/lit of water to control pod borer attack. Install bird perch stand or collect the caterpillars of heliothis or Kill them manually.
- Oilseeds: Mustard: Flowering/ Siliquae development/Most seed green Application of Ridomil-MZ @ 2.0 gm/lit of water is recommended, if attack of white rust is observed.
- Vegetables: Tomato/brinjal/ Cucurbits (Cucumber / bottlegourd/ bittergourd/ pumpkin) Onion/garlic Okra French beans Vegetative /Flowering Vegetative/vines Bulb initiation Sowing Vegetative Install pheromone trap to manage fruit borer. Irrigation is recommended. Give irrigation. To control red pumpkin beetle in cucurbits especially cucumber and bottle gourd, incorporate Phorate granules 10G in the pits during transplanting. Under direct sowing, incorporate granules in soil. Ash dusting on the leaves can also be done early in the morning @ 5ml kerosene/kg of ash to control this beetle., Methyl parathion @1.5ml/lit of water or methyl parathion @ 1 gm/kg of ash early in the morning could also be used as a measure of control . Give prophylactic (before the occurrence of any disease) spray of Dithane M-45 2.5gm/lit to check blight and

blotch. Farmers are advised to go for sowing of okra, Var. Jammu Okra 05. Irrigation followed by weeding is recommended

- Floriculture: Gladiolus Chrysanthemum Winter Annuals Harvest Mother Stock Flowering Give irrigation as per requirement of crop. Harvesting of spikes when the lower most two florets started showing colour. Irrigation followed by weeding is recommended. FYM application,if not applied yet. Irrigation is recommended Button mushroom (A bispora) Button If wet bubble infection is noticed, dispose off infected fruits in pit after dipping the fruit bodies in 2% formalin solution. Maintain temperature 160C -180C during fruiting by spraying water on side walls and floor of the room. Maintain proper hygienic conditions in and around growing rooms. Ventilation in the cropping room is recommended. Open cropping rooms at least 2-3 times to avoid accumulation of CO<sub>2</sub>.
- Horticulture: Mango/ Citrus/ Guava Young Give irrigation as per requirement of crop. Prune and destroy dead, diseased shoots in citrus during these days. Spray 0.1% dimethoate to control leaf miner and Citrus psylla in citrus. Treat mango basin with 2% methyl parathion dust to check mealy bug during clear weather.
- Sericulture: Mulberry: Bivoltine cocoon crop Tree plantation Disinfection of rearing halls/ appliances Farmers may go for second disinfection of rearing appliances either with 2% formalin or 5% bleaching powder solution. Keep the appliances in sun after disinfection.
- Apiculture: Need based sugar feeding is recommended. Keep colonies near the floral crops.
- Fisheries: Fingerlings/ yearlings Farmers may go for partial harvesting of yearlings (marketable size fish), Add supplementary feed (rice/wheat bran & mustard oil cake and rice/wheat bran) @ 3% of total fish biomass on daily basis. If algal bloom appears in pond, do not add any manure/fertilizers feed for some days.
- Poultry: Chicks should be Provided with starter feed for first 14 days and finisher feed from 15th day till sale. Give vaccination against IPD & Gumbroo disease to 7 & 14 days chick. Avoid hurdling of chicks. Proper hygiene should be maintained in poultry sheds. Adequate clean drinking water should be available all the time..
- Live stock: Dairy animals/ Sheep & Goat 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). \*



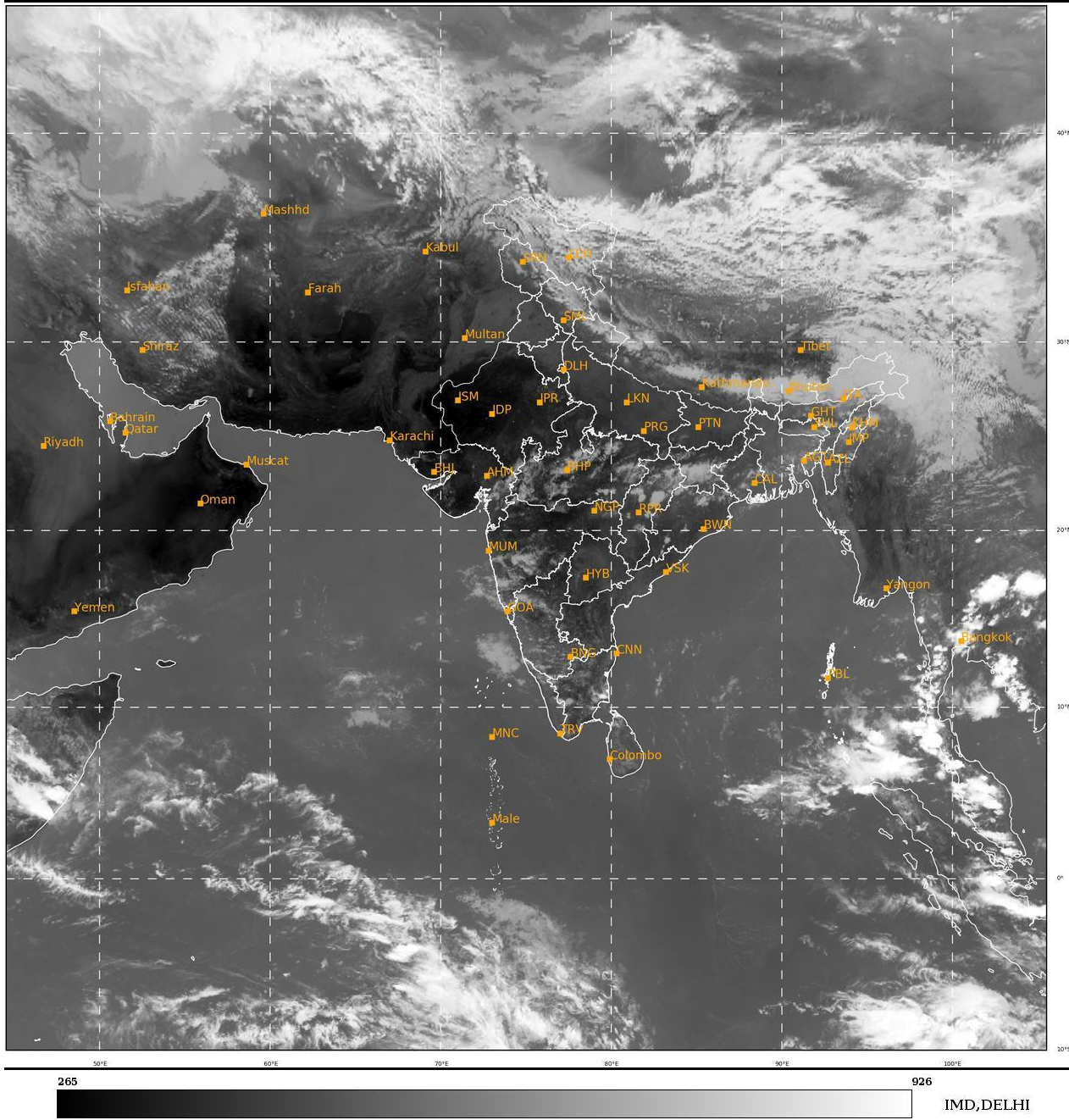
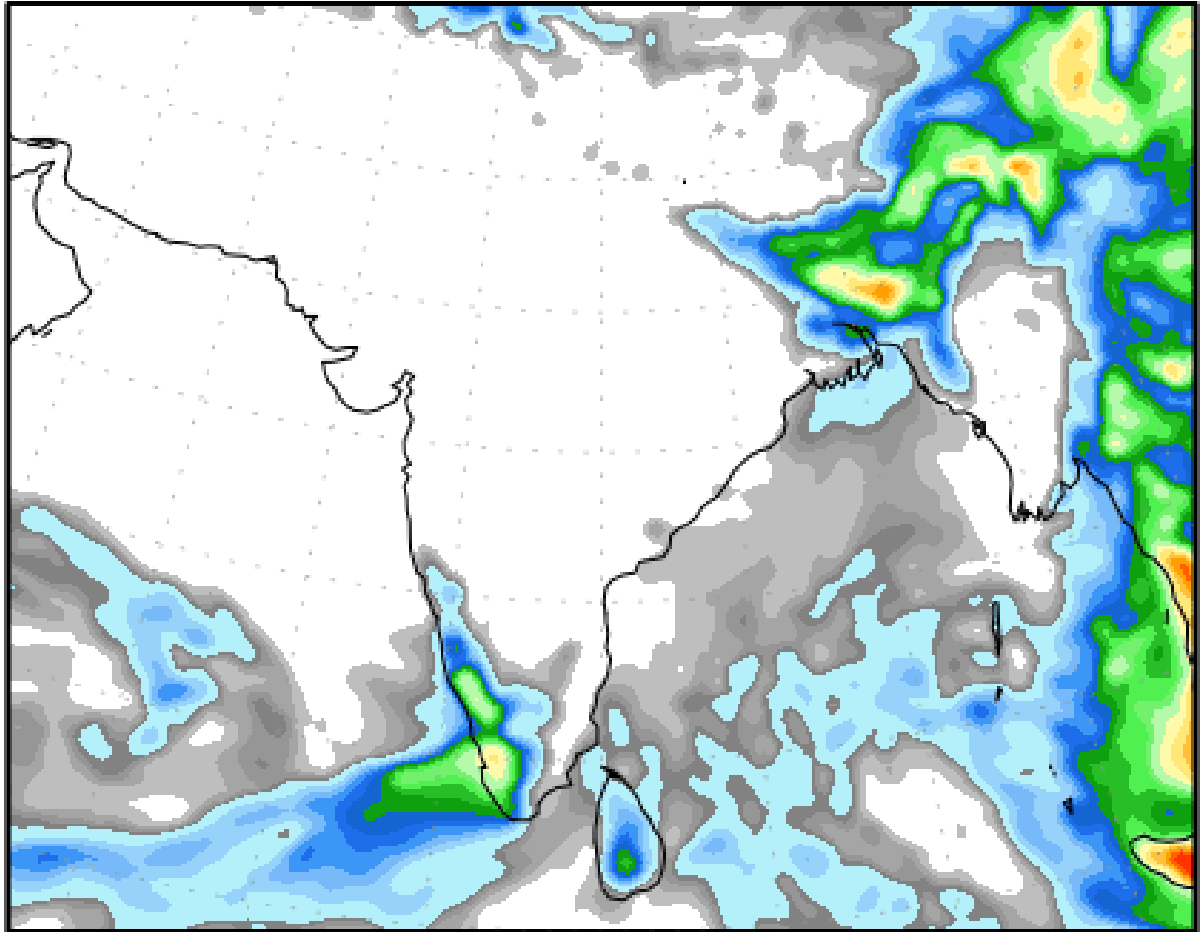


Figure: 1. Latest available satellite picture as on 25 Mar 2022 at 1356 Hrs (IST). (Source: IMD).



**Figure:2. Precipitation forecast for 25 Mar to 02 Apr 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.*