

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

Daily Crop Weather Information as on 10 March 2022

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Weather systems and Warnings:
- Due to wind confluence & convergence in lower tropospheric levels,
 - i) Isolated light rainfall very likely to continue over Kerala & Mahe during next 5 days; over Coastal Karnataka & Lakshadweep during next 2 days and over Tamilnadu during 12th-14th March, 2022.
 - ii) Light rainfall with thunderstorm & lightning very likely to continue at isolated places over Konkan & Goa, Madhya Maharashtra & Marathwada on 10th March.
- Due to Western Disturbance as a cyclonic circulation over north Haryana & neighbourhood at lower tropospheric levels, isolated light/moderate rainfall/snowfall very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and with thunderstorm & lightning over Uttarakhand on 10th March, 2022 and dry weather thereafter.
- Maximum temperatures and its forecast:
- Maximum Temperatures (as on 09-03-2022) were above 35°C over many parts of Gujarat, Kerala & Mahe, Telangana, Rayalaseema and Tamilnadu. These were above normal by 2-4°C over many parts of Gujarat, Konkan & Goa and Kerala & Mahe.
- No significant change in maximum temperatures very likely over Northwest & Central India during next 2 days and gradual rise by 2- 4°C thereafter.
- Gradual rise in maximum temperatures by 2-3°C very likely over Gujarat State during next 3 days and no significant change thereafter.
- 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 places over AndamanNicobar Islands and at isolated places over Haryana, West Uttar Pradesh, Rajasthan, Madhya Maharashtra, Vidarbha, Madhya Pradesh, Marathwada, Gujarat Region and Kerala & Mahe.

- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over West Uttar Pradesh, Madhya Pradesh, Madhya Maharashtra, Vidarbha, East Rajasthan and Coastal Karnataka and Hailstorm observed at isolated places over Rajasthan and north Madhya Maharashtra.
- Maximum Temperature Departures (as on 09-03-2022): Maximum temperatures were markedly above normal (5.1°C or more) at many places over Assam-Meghalaya and Arunachal Pradesh; at a few places over Sub-Himalayan West Bengal-Sikkim; at isolated places over Konkan-Goa; appreciably above normal (3.1°C to 5.0°C) at most places over Himachal Pradesh and Nagaland, Manipur, Mizoram & Tripura; at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttarakhand and Saurashtra-Kutch and at isolated places over Coastal Andhra Pradesh-Yanam; above normal (1.6°C to 3.0°C) at many places over Gujarat Region, Kerala-Mahe and Coastal Karnataka; at a few places over Rajasthan and Tamil Nadu Puducherry & Karaikal and at isolated places over Madhya Pradesh and Uttar Pradesh. They were markedly below normal (-5.1°C or less) at a few places over Vidarbha; below normal (-1.6°C to -3.0°C) at a few places over Madhya Maharashtra, Marathwada and Andaman-Nicobar Islands and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 39.0°C was reported at Nalgonda (Telangana) over the country.
- Minimum Temperature Departures (as on 10-03-2022): Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at a few places over Gujarat State; above normal (1.6°C to 3.0°C) at many places over Haryana-Chandigarh-Delhi, Punjab, Konkan & Goa and Madhya Maharashtra; at a few places over Uttarakhand, Assam-Meghalaya, Madhya Pradesh & Kerala-Mahe and at isolated places over West Rajasthan, East Uttar Pradesh, Sub-Himalayan West Bengal-Sikkim. They are appreciably below normal (-3.1°C to -5.0°C) at isolated places over Vidarbha; below normal (-1.6°C to -3.0°C) at many places over Gangetic West Bengal; at a few places over Tamilnadu-Puducherry-Karaikal and at isolated places over Bihar, Odisha and Coastal Andhra Pradesh-Yanam and near normal over rest parts of the country. Today, the lowest minimum temperature of 12.2°C reported at Karnal (Haryana) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 10 March (Day 1): Thunderstorm accompanied with lightning at isolated places very likely over Uttarakhand, south Madhya Maharashtra and south Konkan & Goa.
- 11 March (Day 2): No weather warning.
- 12 March (Day 3): No weather warning.

- 13 March (Day 4): No weather warning.
- 14 March (Day 5): No weather warning.
- The weather outlook for seven days i.e., 10 Mar to 18 Mar 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)

Himachal pradesh

Weather condition:

The maximum temperature ranged between 11.0 to 21.0 °C which was mostly above normal by 0.6 to 2.8 °C and minimum temperature ranged between 3.5 to 8.0 °C which was below normal by 0.4 to 3.9 °C. 17.4 mm rainfall was received during the week against the normal of 29.9 mm. The relative humidity varied between 33-92% and sunshine hours between 0.5-10.5 hrs/day with variable sky conditions (Octa 2-8). The evaporation rate varied 1.7-2.5 mm per day.

Contingency measure:

- Rabi Crops: Wheat: In wheat crop where weeds are 2-3 leaves stage, spray isoproturon @ 70 g or Vesta @ 16 g per 30 litres of water in one kanal for the control of weeds.
- Storage of Grains: Grains should be properly dried to right moisture level before storing. Godowns should be properly cleaned by removing all the grains and other storage matter of previous crop.
- Mustard: Thinning and weeding is recommended in timely sown mustard crop. Keeping in view of relative humidity farmers are advised for monitoring of mustard crop against attack of white rust. If infection is high than spraying of Dithane - M -45 @ 2 gram/ litre of water of water is advised. Keeping in view of weather, farmers are advised for monitoring of mustard crop against aphid attack.
- Fodder Crops: Intercultural operations on already sown berseem, lucerne and oats for fodder of Rabi season also advised. The lantana weeds in the grasslands may be cut so that regenerated growth during September can be sprayed with 1% glyphosate for its control.
- Vegetable Crops: Add mulch material in space between two rows of vegetables crops for conservation of soil moisture and maintaining the soil temperature.
- Onion & Garlic: Sowing of garlic and onion is advised. Farmers are advised to monitor their fields regularly. Spray of Imidacloprid 17.8 % SC@ 1.0 ml/3 lit of

water is recommended against white flies and other sucking pests in all crop and vegetables when sky is clear.

- Radish & Turnip: Thinning of turnip, carrot and radish is advised. Maintain a plant to plant distance of 7 -10 cm.
- Cabbage & Cauliflower: Advised to complete transplanting of seedlings of cabbage, cauliflower, knoll khol and broccoli are advised. Mix well rotten FYM prior to transplanting. The downy mildew is expected in cruciferous vegetables, for control spray redomil M -Z @ 25 g per litres of water at 15 days interval.
- Potato: Farmers are advised to start earthing -up in potato if crop has attained a height of 15 -22 cm. If so required, the practice may be repeated after 15 days . Due to high relative humidity, infection of blight may occur in potato and tomato. Constant monitoring is advised. If symptoms appears than spray of Carbandizam @ 1.0 gm / litre of water or Dithane - M -45 @ 2.0 gm / litre of water is recommended.
- Poly House Agriculture: Advised tomato, cucumber and capsicum sowing and transplanting. For control of powdery mildew, aphids and spodoptera spray recommended chemicals. Keep yellow sticky trap in polyhouse and after transplanting drench plant with imidachlorpid. Leaf spot/blight is expected in shimla mirch and tomato for control spray tilt 1ml per liters of water. TEA: Training, skiffing and cleaning work can be completed in the tea orchards. Do lopping of the tree in the tea orchards to have more sunlight. The skiffed material may be used to prepare compost so that it could be applied in next season.
- Livestock: Ecto-parasite attack is expected in this weather for control spray Butox @ 2 ml per litre in cowshed Give mixture of hay & green fodder. The weather is suitable for the attack of pink eye disease in newly born calves, for control prepare the solution of 1% boric acid in boiled water and wash eyes at regular interval of three hours. Give mixture of hay & green fodder. Advised not to allow animals to eat lantana these days. Dry bedding may be provided to save the animals from cold. Young calves must be kept in the sheds during nights.
- Poultry: Make sure to deworm your older flocks every month against round-worms. Ensure proper ventilation in poultry houses. Replace the poultry houses with fresh litter and keep the houses clean and ensure drinking water to the birds. For precautionary measures spray formaline 40% @ 1litre in 9 litres of water in outside or surrounding of farm. Provide vitamin A and vitamin B-complex with water. Ensure proper space for egg laying of birds and provide 14- to 16 hours light including day light. Normal feeding schedule should be continued and add mineral in the diet if stress is seen.
- Mushrooms: Dingri can be sown in closed room, maintain temperature of 25-28

degree Celsius and relative humidity of 80-85 % for good crop. Advised to fill compost bags with span for button mushrooms.

- Horticulture: Keep the basins of the plants free from weeds. The new growth appearing below bud union may be cut. If a termite outbreak appears on the trees, spray Chlorpyrifos 20 EC @ 3ml/l. Monitor foliar pest on plants of Citrus species. Spray Chlorantraniliprole 18.5SC @ 0.4 ml/l or lambda cyhalothrin 4.90CS @ 0.8 ml/l for pomegranate butterfly. Advised recommended spray of chemicals for control of citrus canker. In peach gum is coming out from tree trunk, for control bordeaux paint may be applied in the affected area. Advised planting of strawberry. Wrapping of plastic sheets around mango trunk should be done for preventing climbing of young mealy bugs. Apply grease to seal any cracks in the polythene sheets. If the stem borer problem is there in spray insecticide or control them with applying kerosene oil. Keep the basins of the plants free from weeds. Prepare the pits for planting the winter plants like pecan nut, walnut, almond plum and peach. In peach gum is coming out from tree trunk, for control bordeaux paint may be applied in the affected area.
- Fruit Trees: Sowing of mango, litchi, guava, papaya, pecan nut and kagzi lime is recommended under these weather conditions. Air layering of litchi, guava, kagzi lime and lemon is recommended. Side veneer grafting in mango and inverted T-budding in citrus is recommended. Transplanting of seedlings of rough lemon (Khatti) in the nursery beds, if not done during July. Weeding in nursery is recommended.

SAT : INSAT-3D IMG
IMG_TIR1 10.8 um
LIC Mercator

10-03-2022/(0730 to 0751) GMT
10-03-2022/(1300 to 1321) IST

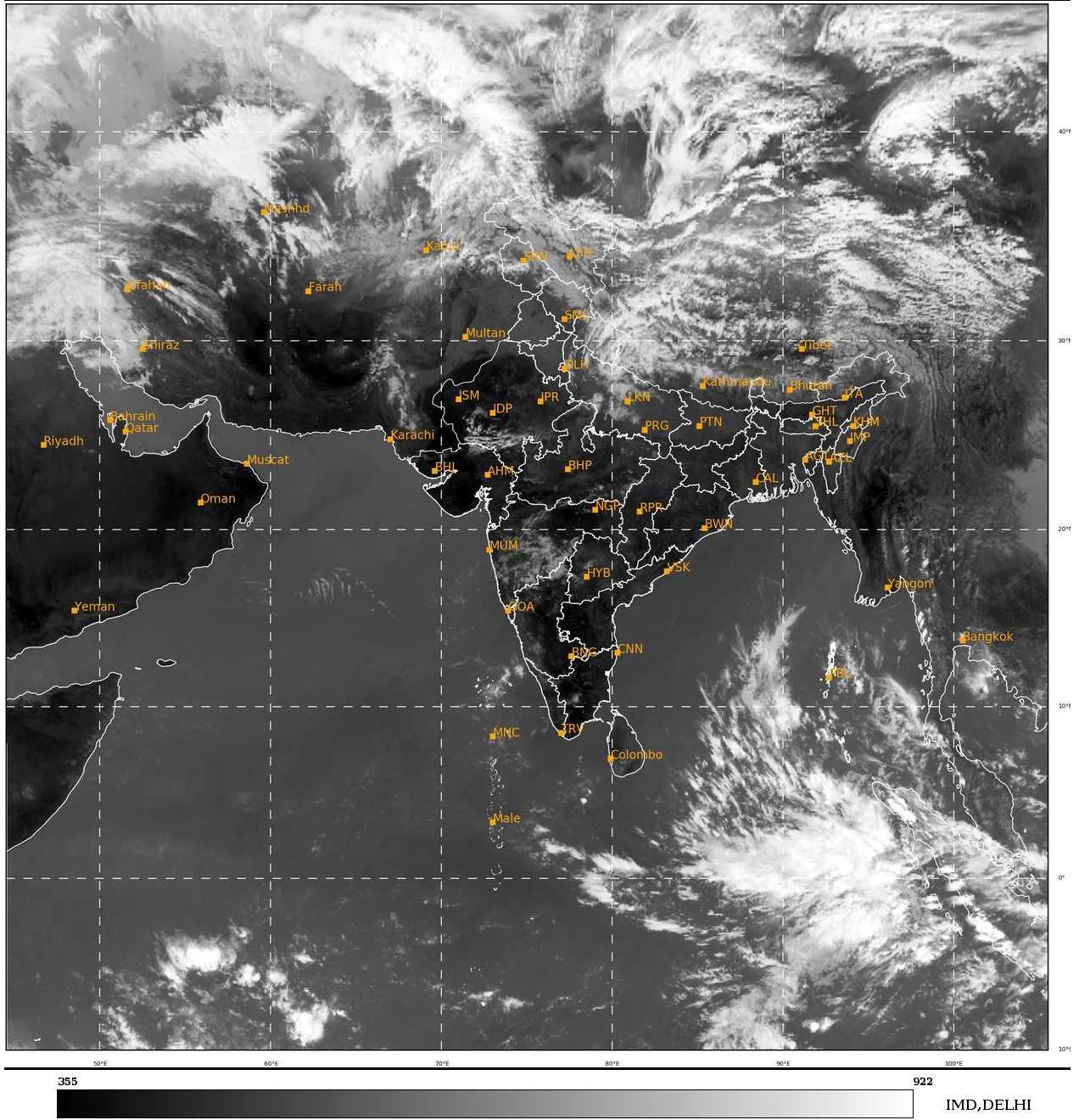


Figure: 1. Latest available satellite picture as on 10 Mar 2022 at 1321 Hrs (IST). (Source: IMD).

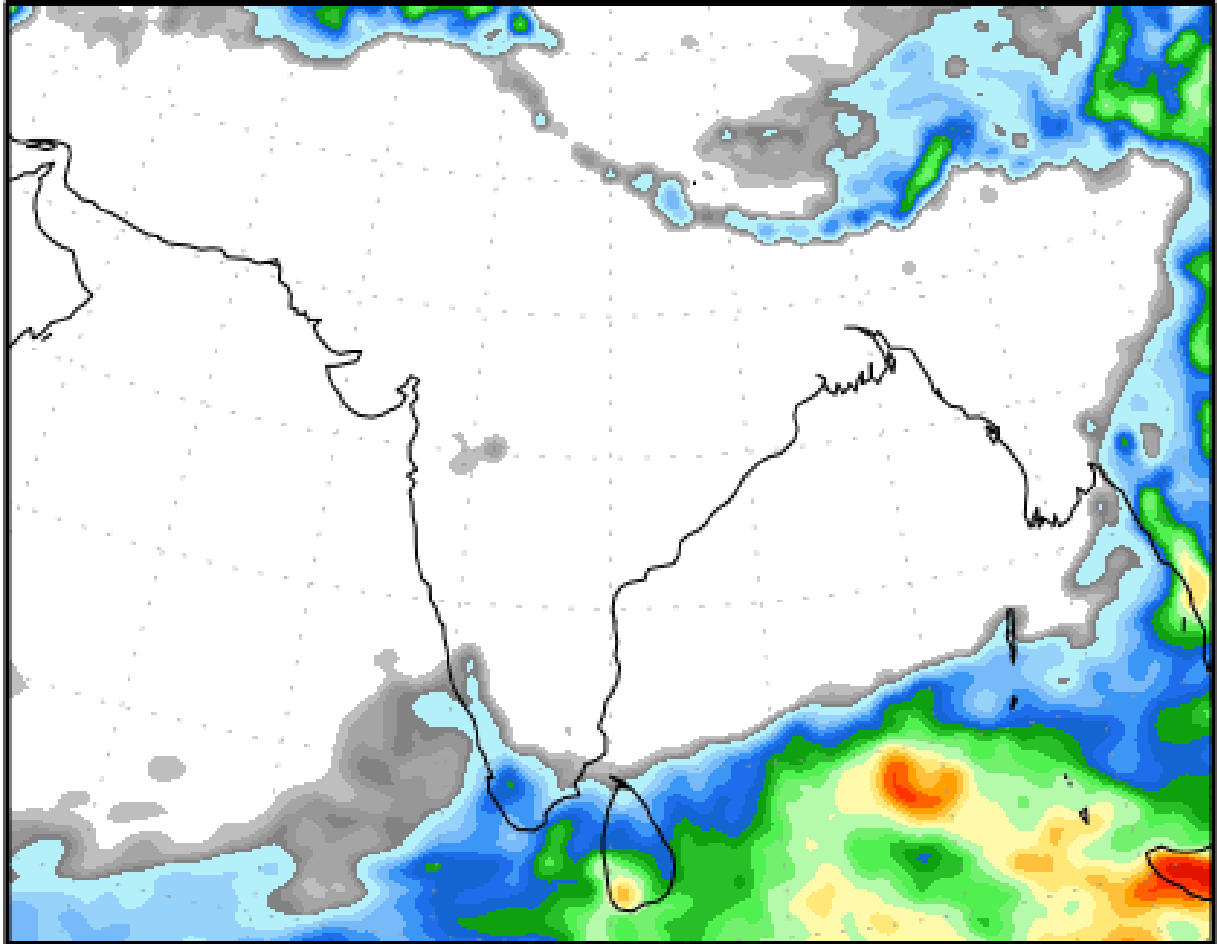


Figure:2. Precipitation forecast for 10 Mar to 18 Mar 2022 (Source: NOAA NCEP).

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