

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

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

### **Daily Crop Weather Information as on 11 March 2022**

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

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

- Weather systems and Warnings:
  - i) Light rainfall with thunderstorm & lightning very likely to continue at isolated places over south Konkan & Goa and south Madhya Maharashtra on today, the 11th March and decrease thereafter.
  - ii) Isolated light rainfall likely over Coastal & North Karnataka during next 24 hours & over Kerala & Mahe on 14th & 15th and over Tamil Nadu during 13th-15th March, 2022.
  - iii) No significant rainfall is likely over rest parts of the country during next 5 days.
- Maximum Temperatures (as on 10-03-2022) were above 35°C over many parts of Gujarat, Vidarbha, Odisha, Kerala & Mahe, Telangana, Rayalaseema and Tamilnadu. These were above normal by 2-4°C over many parts of Gujarat, Konkan & Goa and Kerala & Mahe.
- Heat Wave very likely to prevail in isolated pockets over Saurashtra-Kutch during next 2 days.
- 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 a few places over AndamanNicobar Islands and at isolated places over West Madhya Pradesh, Konkan-Goa, Madhya Maharashtra, Telangana and North Interior Karnataka.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): Nil.
- Maximum Temperature Departures (as on 10-03-2022): Maximum temperatures were markedly above normal (5.1°C or more) at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Assam-Meghalaya and Arunachal Pradesh; at a few places over Sub-Himalayan West Bengal-Sikkim and Himachal Pradesh; appreciably above normal (3.1°C to 5.0°C) at many places over

Saurashtra-Kutch, Konkan-Goa and Nagaland, Manipur, Mizoram & Tripura; at isolated places over Tamil Nadu, Puducherry & Karaikal; above normal (1.6°C to 3.0°C) at many places over Kerala-Mahe; at a few places over Gujarat Region, Odisha, Coastal Andhra Pradesh-Yanam and Andaman-Nicobar Islands; at isolated places over East Madhya Pradesh and Gangetic West Bengal. They were below normal (-1.6°C to -3.0°C) at many places over Madhya Maharashtra and Marathwada; at a few places over West Madhya Pradesh and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 38.6°C was reported at Punalur (Kerala) over the country.

- Minimum Temperature Departures (as on 11-03-2022): Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at a few places over Gujarat state and Konkan & Goa and at isolated places over Himachal Pradesh, Uttar Pradesh and Madhya Maharashtra; above normal (1.6°C to 3.0°C) at many places over West Rajasthan; at a few places over Punjab, Haryana, Chandigarh & Delhi, Vidarbha, Telangana, Coastal Karnataka, Bihar, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and Andaman & Nicobar Islands and at isolated places over Jammu & Kashmir, East Rajasthan, Madhya Pradesh and Marathwada. They are below normal (-1.6°C to -3.0°C) at isolated places over Coastal Andhra Pradesh-Yanam, Rayalaseema and Tamil Nadu-Puducherry-Karaikal and near normal over rest parts of the country. Today, the lowest minimum temperature of 11.5°C is reported at Amritsar (Punjab) over the plains of the country.

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

- 11 March (Day 1): Thunderstorm accompanied with lightning at isolated places very likely over south Konkan-Goa and Madhya Maharashtra. Heat Wave conditions in isolated pockets very likely over Saurashtra-Kutch.
- 12 March (Day 2): Heat Wave conditions in isolated pockets very likely over Saurashtra-Kutch.
- 13 March (Day 3): No weather warning.
- 14 March (Day 4): No weather warning.
- 15 March (Day 5): No weather warning.
- The weather outlook for seven days i.e., 11 Mar to 19 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)

### Marathwada

#### Weather condition:

From 26.02.2022 to 04.03.2022 during this week Weather condition of Parbhani center no rainfall was recorded. The Maximum temperature was range from 34.2 to 35.5°C and minimum temperature range from 14.8 to 18.0°C. Relative humidity (RH-I) ranged between 57 % - 67 % and relative humidity (RH-II) recorded was 14 % to 21% The wind speed varied 2.6 to 3.9 km/hr.

#### Contingency measure:

- Chickpea: As per forecast thunderstorm accompanied with light to moderate rainfall may occur at isolated places Harvesting of mature chickpea crop should be done and store at safe places.
- Wheat: For the control of field rats in late sown wheat crop prepare a mixture with 1 part Zinc Phosphide + 1 part Jaggery + 50 parts wheat flour and edible oil. Apply this mixture in the burrows and close them. As per requirement irrigation management should be done in wheat crop.
- Summer soybean: Intercultural operation & As per requirement irrigation management should be done in summer soybean crop. For management of sucking pests (whiter fly and jassid) in summer soybean make use of yellow sticky traps @ 15 to 20 per acre and take a spray of 5% NSKE. If infestation is more then take spray of Thiamethoxam 12.6% + Lambda Cyhalothrin 9.5% ZC @ 2.5 ml or Betacyfluthrin 8.49% + Imidaclopride 19.81% @ 7 ml per 10 liter of water. Remove the off plants from seed production plot of soybean. For management of leaf eating caterpillar in soybean take a spray of Profenophos 50% EC @ 20 ml per 10 liter of water or Thimethaoxam + Lambda Cyhalothrin @ 50 ml per acre (2.5 ml per 10 liter of water).
- Sugarcane: As per requirement irrigation management should be done in newly planted seasonal sugarcane crop. For management of stem borer in Sugarcane crop take a spray of Chlorpyriphos 20% @ 25 ml or chlorantraniliprole 18.5 % @ 4 ml per 10 liter of water.
- Turmeric: As per forecast thunderstorm accompanied with light to moderate rainfall may occur at isolated places Harvested turmeric crop Store at safe places.
- Rabi Sorghum: Infestation of stem borer and fall armyworm may observed in late sown Rabi sorghum for management take a spray of Thiamethoxam 12.6 % + Lambda ? cyhalothrin 9.5 ZC @ 5 ml or Spinetoram 11.7 SC @ 4 ml per 10 liter of water. For management of sugary disease in late sown Rabi sorghum take a

spray of Carbendazim @ 10 gm per 10 liter of water. Harvesting of timely sown and mature Rabi Sorghum should be done.

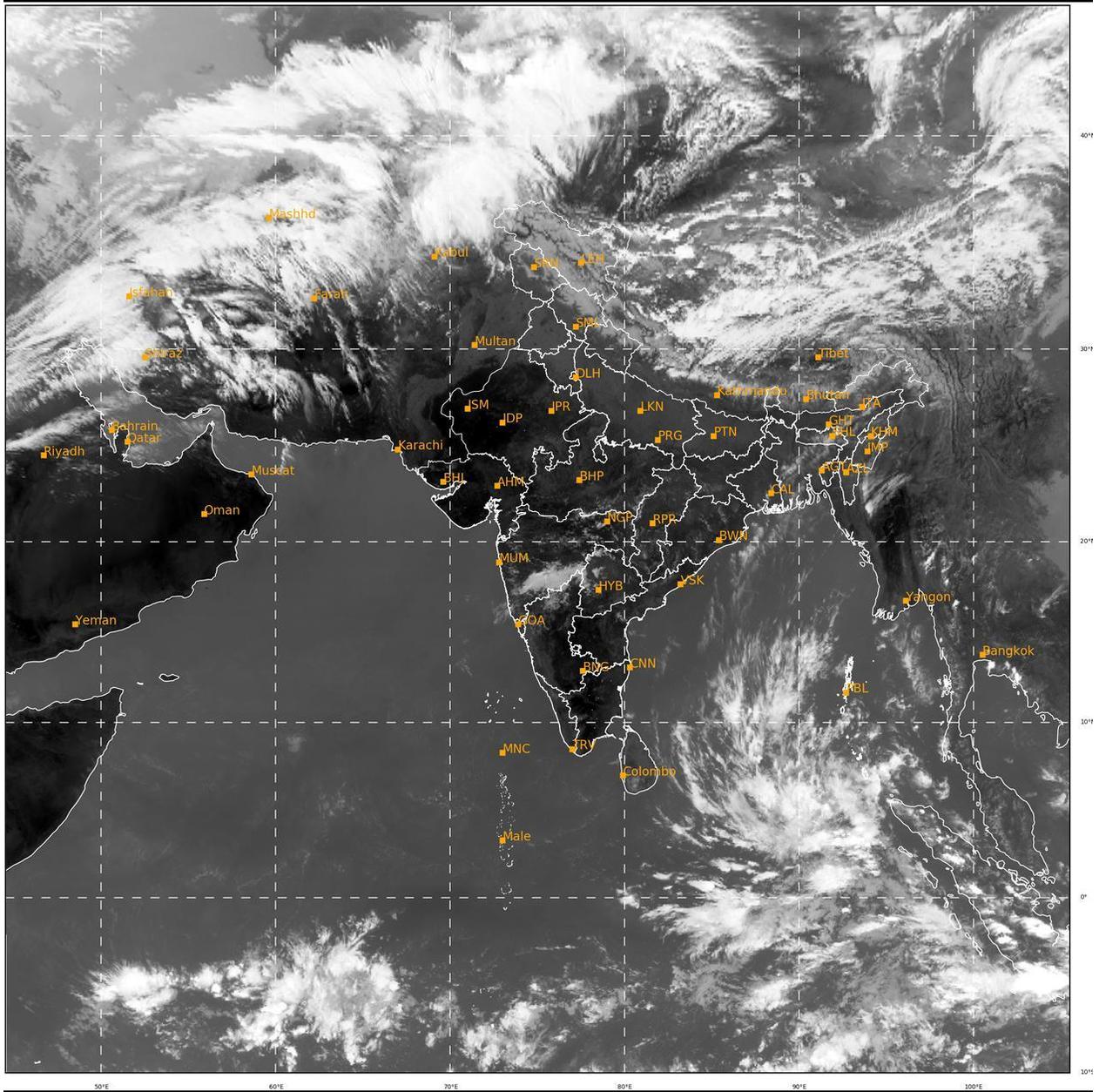
- Summer Groundnut: For management of sucking pests in timely sown summer groundnut take alternate spray of imidaclopride 17.8% @ 2.5 ml or Lambda cyhalothrin 5% @ 6 ml or Thiamethoxam 12.6% + Lambda cyhalothrin 9.5% @ 3 ml (combine insecticide) per 10 liter of water. Irrigation management should be done as per requirement in summer groundnut crop with the help of drip or sprinkler irrigation system.
- Safflower: Infestation of Aphids may observe in late sown safflower for management of take a spray of Dimethoate 30 % @ 13 ml or Acephate 75 % @ 15 gram per 10 liter of water.
- Banana: Give support to the bunch of banana with the help of Bamboo sticks. Remove and destroy dried and infected leaves from the orchard. Irrigation management should be done with the help of drip irrigation system in Banana orchard.
- Mango: For management fruit drop in mango take a spray of 10 PPM Napthalene acetic acid (Planofix @ 2.5 ml per 10 liter of water). For protection of inflorescence in Mango dusting of 300 mesh sulfur should be done so that powdery mildew and blight can be control. Irrigation management should be done with the help of drip irrigation system in Mango orchard.
- Grape: Harvest the mature grapes. Grading of harvested grapes should be done before sending to market.
- Citrus: If infestation of mites is observed in Mrug Bahar citrus orchard, for management take a spray of Dicofol 18.5 EC @ 2 ml or Propargite 20 EC @ 1 ml or Ethion 20 EC @ 2 ml or water soluble Sulphur @ 3 g per liter of water. As per requirement take another spray after an interval of 15 days. Irrigation management should be done in citrus orchard. Harvesting of mature fruits should be done.
- Pomegranate: If shot hole /stem borer infestation is observed in the orchard apply Stem pasting: Make the paste by mixing the Red soil 4 kg + Chlorpyriphos 20% EC 20 ml + Copper oxychloride 25 g in 10 litres of water and paste on a stem up 2- 2.5 ft. from the bottom. Drenching: Thiamethoxam 25 % WG @ 10-15 g + Propiconazole 25% EC @ 15- 20 ml/10 litre of water.
- Floriculture: Harvesting of mature flowers should be done. Irrigation management should be done as per requirement.
- Vegetable: For management of blight in onion take a spray of Azoxystrobin + Difenconazole 10 ml + 5 ml Sticker per 10 liter of water. Infestation of sucking pests may observed in vegetable (Chilli, brinjal, Ladies finger.) crops, For

management take a spray of Pyriproxyfen 5 % + Fenpropathrin 15 % @ 10 ml or Dimethoate 30 % @ 13 ml per 10 liter of water. For management of Thrips in Chilli take alternate spray of Emamectin Benzoate 5% SG @ 4 gm or Fenpropathrin 30% EC @ 3.5 ml or Spinosad 45% SL @ 3.2 ml or Fipronil 5% SC 20 ml or Acitamapride 7.7% SG @ 8 ml per 10 liter of water. Irrigation management should be done as per requirement in vegetable crops with the help of micro irrigation system. .

- Fodder Crop: For management of fall armyworm in fodder maize crop remove infected plant parts and destroy them properly and take a spray of 5% NSKE.
- Mulberry: sericulture To harvest A grade quality cocoon, farmers need to take skill development training in silkworm rearing. To maintain 80 % moisture in mulberry, irrigation should be given at 6-7 days in light soil and 10 to 12 days interval in heavy soils. Compost fertilizer application should be given two times per year at June and in November month @ 4 tons per acre at one time (Total 8 tons per acre). Than only you will harvest 25 tons leaf yield per acre i.e. 250 DFL?s of silkworm crop for 5 to 6 times in a year will given 200 kg cocoons yield @ Rs. 300 per Kg will give Rs. 3 lakhs per year to the farmers.
- Animal husbandry: Now a days heavy infestation of leas is occurring on livestock. To control, lovestock shall be kept away from regular shed for certain period. Mean while in the regular shed webs cleaning of the roofs shall be undertaken and such shed shall be sprayed with 4% common salt solution,. On the body of livestock either 5% NSKE or herbal solution (15 ml neem oil + 15 ml Karanj oil + 2 gm soft soap + 1 liter water) or any chemical under the guidance of veterinary doctor shall be sprayed. To protect the animals from temperature during summer season, apply mulching on the roof of shade with the help of dry grass and trush of sugarcane which reduces the temperature of shade.

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

11-03-2022/(0800 to 0826) GMT  
11-03-2022/(1330 to 1356) IST

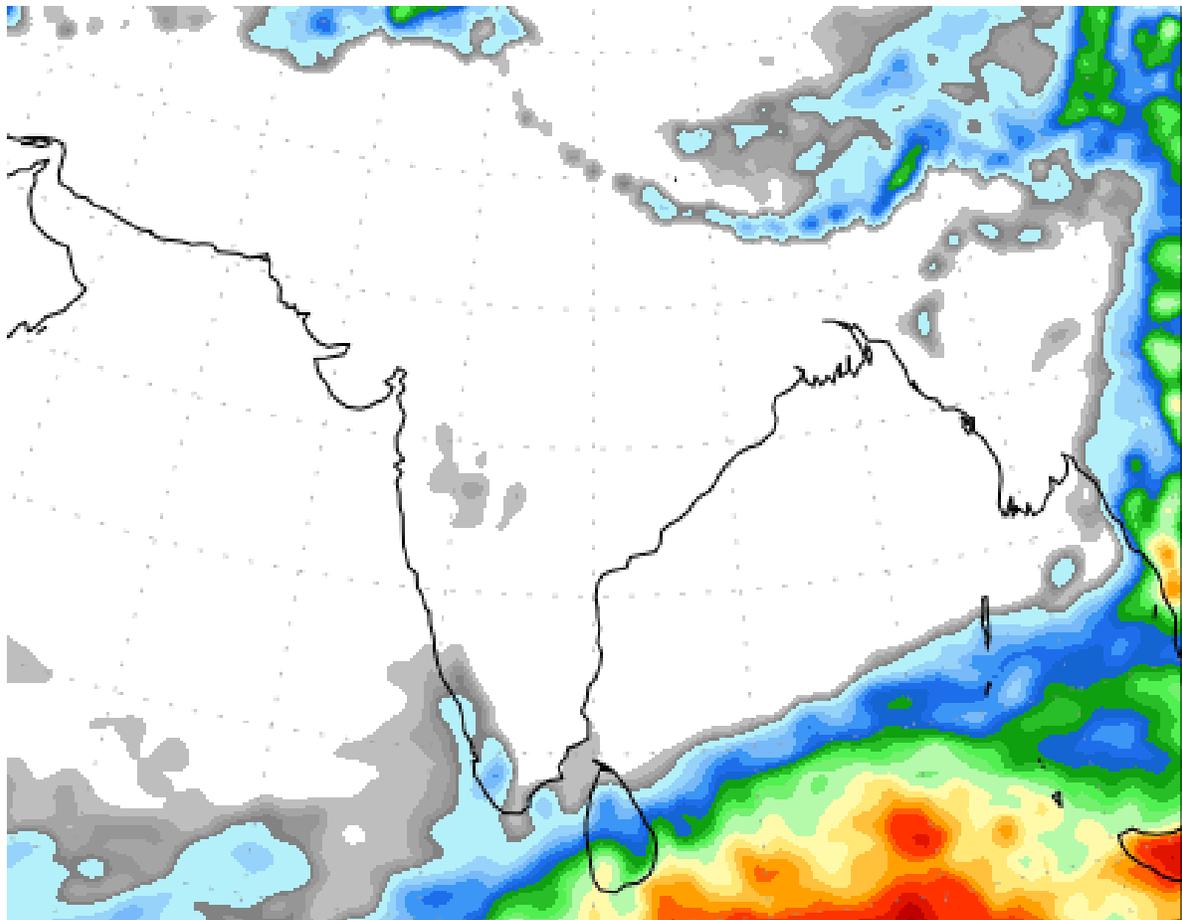


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IMD,DELHI

Figure: 1. Latest available satellite picture as on 11 Mar 2022 at 1356 Hrs (IST). (Source: IMD).



**Figure:2. Precipitation forecast for 11 Mar to 19 Mar 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.*