

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

**Daily Crop Weather Information as on 16 March 2022**

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

**Significant Weather Features (IMD)**

- Weather systems and Forecast:
- A Low Pressure Area lies over Equatorial Indian Ocean & adjoining Southwest Bay of Bengal and the associated cyclonic circulation extends upto mid-tropospheric levels. Under its influence:
  - i) Scattered to widespread rainfall very likely over Andaman & Nicobar Islands during 16th-20th March with isolated thunderstorm/ lightning on 18th-20th March. Isolated heavy rainfall also likely over the region on 19th March, 2022.
  - ii) Strong Winds (speed reaching 40-50 kmph gusting to 60 kmph) likely to prevail over south Andaman Sea on 19th-20th March, 2022.
- Forecast for other parts of the country:
- Weather likely to be dry over most parts of the country except light isolated rainfall over Kerala & Mahe during next 5 days; over South Interior Karnataka during 17th-20th; Tamilnadu, Puducherry & Karaikal on 18th-20th March.
- Strong Winds (speed reaching 25-35 kmph) likely to prevail over plains of Northwest India on 16th & 17th March, 2022.
- Heat Wave warning:
- Heat Wave conditions to Severe Heat Wave conditions very likely to prevail in some parts of West Rajasthan during 16th-17th and Heat Wave conditions in isolated pockets over the region on 18th March, 2022.
- Heat Wave conditions very likely to prevail in isolated pockets over Konkan and Saurashtra-Kutch on 16th March, 2022.
- Heat Wave conditions very likely to prevail in isolated pockets over Gujarat Region, West Madhya Pradesh and East Rajasthan on 16th & 17th and over Odisha during 16th-18th March, 2022.
- The images showing the latest satellite picture in the figure. 1.

## Main Weather Observations (IMD)

- Rainfall/thundershower observed (from 0830 IST to 1730 hours IST of yesterday): at isolated places over Jammu & Kashmir.
- Severe Heat Wave conditions observed over many parts of West Rajasthan; Heat Wave conditions in some pockets with Severe Heat Wave conditions in isolated pockets observed over Gujarat state and Heat Wave conditions in isolated pockets over Konkan.
- Maximum Temperature Departures (as on 15-03-2022): Maximum temperatures were markedly above normal (5.1°C or more) at most places over Himachal Pradesh, Assam & Meghalaya and Rajasthan; at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; at a few places over Punjab, Haryana-Chandigarh-Delhi, Gujarat state and SubHimalayan West Bengal-Sikkim; at isolated places over Madhya Pradesh; appreciably above normal (3.1°C to 5.0°C) at most places over Vidarbha and Nagaland-Manipur-Mizoram-Tripura; at a few places over Konkan & Goa, Jharkhand, Odisha and Gangetic West Bengal and at isolated places over Uttar Pradesh, Madhya Maharashtra, Telangana and Coastal Andhra Pradesh & Yanam; above normal (1.6°C to 3.0°C) at a few places over Marathwada, Kerala & Mahe and Bihar and at isolated places over North Interior Karnataka and Tamil Nadu-Puducherry-Karaikal and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 41.7°C was reported at Surendranagar (Saurashtra & Kutch) over the country.
- Minimum Temperature Departures (as on 15-03-2022): Minimum temperatures were markedly above normal (5.1°C or more) at a few places over Punjab; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarkhand, Rajasthan, West Uttar Pradesh and Saurashtra & Kutch; appreciably above normal (3.1°C to 5.0°C) at a few places over Haryana Chandigarh & Delhi and at isolated places over East Uttar Pradesh, West Madhya Pradesh, Gujarat Region and Andaman & Nicobar Islands; above normal (1.6°C to 3.0°C) at a few places over Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya and at isolated places over East Madhya Pradesh, Konkan & Goa and Kerala & Mahe. They were below normal (-1.6°C to -3.0°C) at a few places over Coastal Andhra Pradesh & Yanam, Telangana, Gangetic West Bengal, Coastal Karnataka, Rayalaseema and Tamil Nadu, Puducherry & Karaikal and at isolated places over Vidarbha and Odisha and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 11.2°C was reported at Fursatgunj (East Uttar Pradesh) over the plains of the country.

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

- 16 March (Day 1): Heat Wave conditions in some parts with Severe Heat Wave conditions very likely in isolated pockets over West Rajasthan; Heat Wave conditions in some pockets over East Rajasthan and in isolated pockets over West Madhya Pradesh, Odisha, Konkan and Gujarat state. Squally weather (speed reaching 40-50 kmph gusting to 60 kmph) very likely over Equatorial Indian Ocean & adjoining Southwest Bay of Bengal. Fishermen are advised not to venture into these areas.
- 17 March (Day 2): Heat Wave to Severe Heat Wave conditions very likely in isolated pockets over West Rajasthan; Heat Wave conditions in isolated pockets over East Rajasthan, Odisha, Gujarat Region and West Madhya Pradesh.
- 18 March (Day 3): Heat Wave conditions likely in isolated pockets over West Rajasthan and Odisha. Thunderstorm accompanied with lightning likely at isolated places over Andaman & Nicobar Islands and Kerala & Mahe.
- 19 March (Day 4): Heavy rainfall likely at isolated places over Andaman & Nicobar Islands. Thunderstorm accompanied with lightning & gusty winds (30-40 kmph) likely at isolated places over Andaman & Nicobar Islands; with lightning at isolated places over Kerala & Mahe. Squally weather (speed reaching 40-50 kmph gusting to 60 kmph) very likely over south Andaman sea area. Fishermen are advised not to venture into these areas.
- 20 March (Day 5): Heavy rainfall likely at isolated places over Andaman & Nicobar Islands. Thunderstorm accompanied with lightning & gusty winds (30-40 kmph) likely at isolated places over Andaman & Nicobar Islands; with lightning at isolated places over Kerala & Mahe. Squally weather (speed reaching 40-50 kmph gusting to 60 kmph) very likely over south Andaman sea area. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 16 Mar to 24 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)

#### **Tamil nadu**

#### **Weather condition:**

Maximum temperature: 35.4°C (normal 35.5°C), minimum temperature: 21.0°C (normal 20.5°C), rainfall: 0.0 mm (normal 3.7 mm). The maximum and minimum temperature was 0.14°C and 0.5°C below & With respect to daily rainfall, rainfall occurred at dry

weather prevailed over rest Tamil Nadu on 11.03.2022, at isolated places over Tamil Nadu on 05.03.2022, 06.03.2022, 07.03.2022, 08.03.2022, 09.03.2022 and 10.03.2022, during this week.→ Minimum temperature range of 18°C - 27°C prevailed over the state except Kodaikanal and Uthagamandalam (06°C-9°C) during the period under report. → Maximum temperature range of 28°C - 36°C prevailed over the state except Kodaikanal and Uthagamandalam (17°C - 23°C) during the period under report. →above normal respectively and the rainfall was 3.7 mm below normal across the week. General weather situation in Tamil Nadu:

### Contingency measure:

- Irrigated crops -Water management -Light rainfall is predicted for day 5 (13.03.2022).However, irrigation may be provided based on the local weather and crop requirement. Dry land - Farmers are requested to practice the summer ploughing for better utilization of rainfall. Irrigated crops -Soil moisture conservation - Farmers are advised to practice mulching in order to harvest the rainfall for crop usage.
- Rainfed and Irrigatedcrops- All the stage -Sucking pest infection is noticed under increased temperature. Farmers are advised to go for plant protection and nutrient spray based on crop specific and stage.
- Paddy-Panicle initiation stage- Prevailed weather is conducive for Leaf folder and Stem borer. So farmers are advised to spray Azadirachtin 0.03% 1000ml/ha. (or) Chlorontrinirole 18.5%SC @ 150g/ha. (or) Thiamethoxam 25% WG @ 100g/ha. Under prevailed weather, deficiency symptom is noticed. Farmers are advised to go for foliar fertilizers like Polyfeed (19:19:19) to provide crop nutrients.
- Chilli- Flowering and fruiting stage - Prevailing weather is conducive for Fruit Rot and Die Back diseases. The first spraying should be given just before flowering and the second at the time of fruit formation. Third spraying may be given a fortnight after second spraying. Chemicals like wettable sulphur 0.2%, copper oxychloride 0.25% and Zineb 0.15% not only reduced the disease incidence but also increased the yield of fruits. Prevailing weather is conducive for Gram caterpillar @ Emamectin benzoate 5 % SG @ 4 g/10 lit.
- Coconut- All stages- Rugose Spiralling whitefly is noticed in the prevailed weather condition. Application of water, maida solution as spray in order to increase the population of Encarsia parasitic. Also keep yellow stick trap.
- Guava- Fruiting stage - Prevailing weather condition is conducive for Fruit fly, to control spray malathion 50 EC @2ml/litre or Dimethoate 30 EC @ 1ml/litre.. ?Prevailing weather is conducive for Tea mosquito bug. Spray malathion 2ml/lit

water. (or) Thiamethoxam 25WG 40g/acre (or) Profenophos 2ml/acre. Spray 3% neem oil at 3 weeks interval for 4 times. (or) Collect and destroy the damaged plant parts.

- Jasmine- Flowering stage -Prevailing weather is conducive for Blossom midge. Spray Thiamethoxam 2.5% WG @ 0.75 g/litre (or) Novaluron 3ml/lit. of water.
- Citrus -Citrus Canker- Under the prevailing weather condition citrus canker disease is noticed. To control spray of Copper oxychloride (COC) @ 0.3% followed by 4 sprayings with Streptocyclin 100 ppm + COC @ 0.3 % at monthly intervals after pruning. Under the prevailing weather condition Citrus leaf miner is noticed. To control spray fenvalerate 0.2ml or dimethoate [Rogor] 2ml/l (or) Spray application of NSKE 5%
- Livestock -Chick -Summer Management in Poultry: Heat stress in poultry especially broilers lead to huge economic loss. Signs of Heat stress: 1. Less feed intake 2. Poor growth rate 3. High mortality. Management: 1. Long axis of the poultry house should be in east-west direction. 2. Poultry house should have a width not more than 22-25 ft-to allow ample ventilation. 3. Wet gunny bags should be arranged on the sides of the poultry house to prevent the entry of direct sun-rays into the shed. 4. Feeding should be done in cool hours of the day. 5. Vitamin C supplementation should be done. 6. Cool drinking water should be provided. 7. Addition of B-complex vitamins and electrolytes in the water will help to overcome the Heat Stress. 9. Space allowance to the birds may be increased to 20% to reduce stocking density.
- Dairy animals - Farmers may provide 30-50 gram of mineral mixture per animal to improve the production and health status. To avoid parasitic infestation in dairy animals farmers are advised to deworm and detick the animals in nearby veterinary dispensary.
- Banana -All stages- Under prevailing weather condition Wilt disease noticed. Soil drenching of Carbendazim 0.1 per cent solution around the pseudostem at bimonthly intervals starting from five months after planting

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

16-03-2022/(0800 to 0827) GMT  
16-03-2022/(1330 to 1357) IST

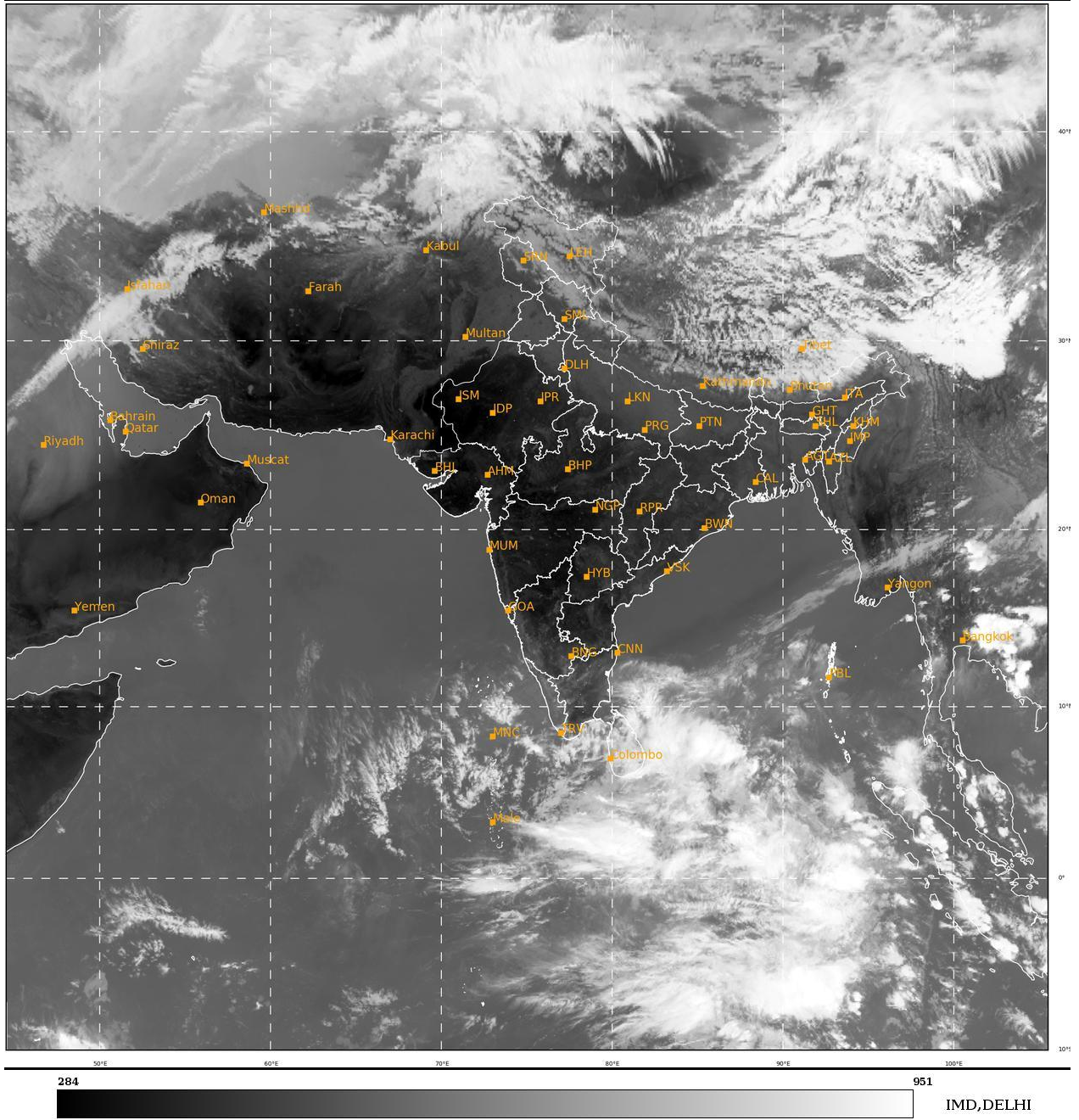
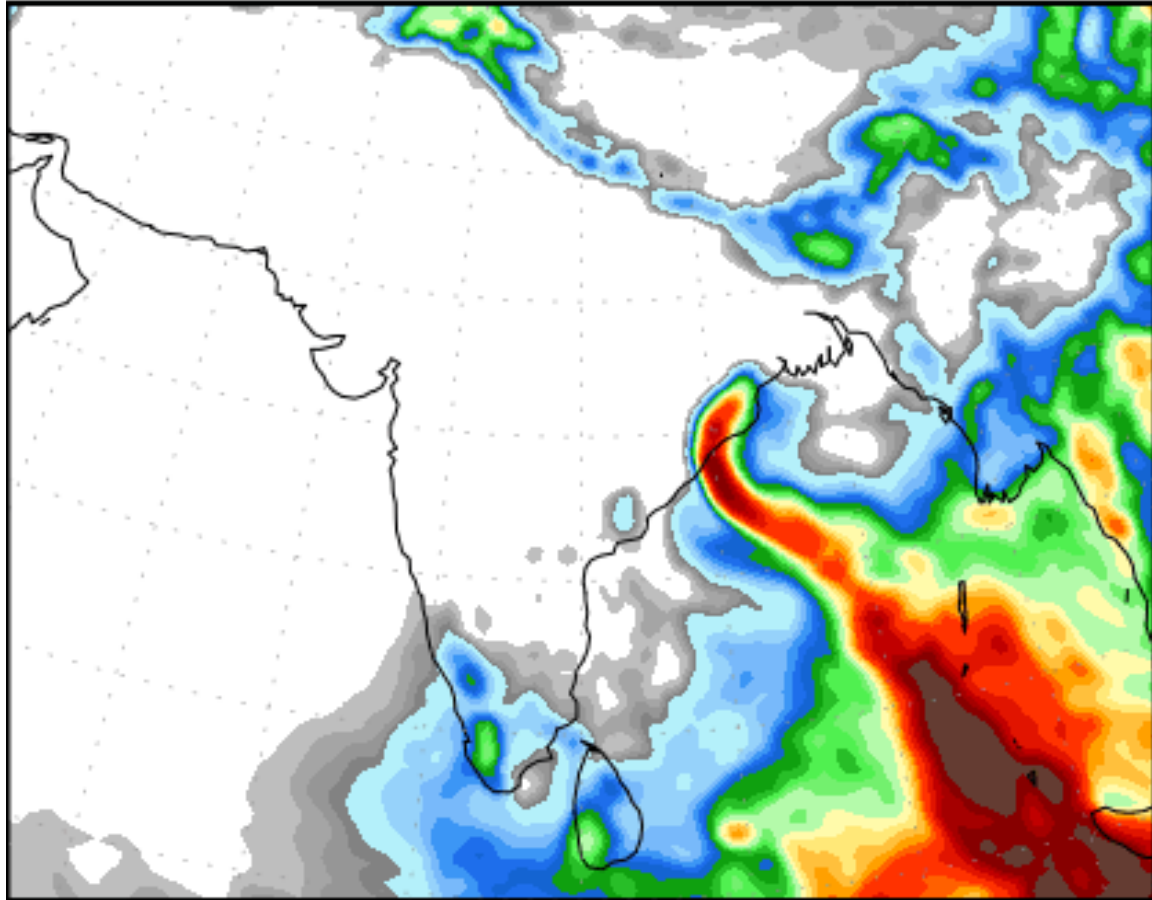


Figure: 1. Latest available satellite picture as on 16 Mar 2022 at 1357 Hrs (IST). (Source: IMD).



**Figure:2. Precipitation forecast for 16 Mar to 24 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.*