

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

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

### **Daily Crop Weather Information as on 24 March 2022**

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

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

- Forecast & Warnings for other parts of the country:
- Under the influence of a fresh Western Disturbance, isolated/scattered rainfall/snowfall with thunderstorm/lightning very likely over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh and isolated rainfall/snowfall with thunderstorm/lightning & hail over Uttarakhand during next 24 hours.
- Light isolated/scattered rainfall very likely over Kerala & Mahe, Tamilnadu, Puducherry & Karaikal and Karnataka during next 5 days and over Coastal Andhra Pradesh & Rayalaseema during next 2 days. Isolated thunderstorm/lightning activity also very likely over Kerala & Mahe during next 5 days, over Coastal & South Interior Karnataka during next 2 days.
- Light to moderate scattered/fairly widespread rainfall very likely over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Sub-Himalayan West Bengal & Sikkim during next 5 days with isolated thunderstorm/lightning over the region during next 3 days.
- Heat wave warning:
- Heat Wave conditions in isolated pockets very likely over Saurashtra-Kutch during 25th-27th March and over Gujarat Region on 26th & 27th 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 many places over Sub-Himalayan West Bengal Sikkim & Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; at a few places over Arunachal Pradesh, Kerala & Mahe and Andaman & Nicobar Islands and at isolated places over Uttarakhand, Assam-Meghalaya, Nagaland, Manipur, Mizoram-Tripura, Gangetic West Bengal, Odisha, Konkan-Goa, Madhya Maharashtra, Coastal Andhra Pradesh-Yanam, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and South Interior Karnataka.

- Heavy Rainfall recorded (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Sub-Himalayan West Bengal-Sikkim, Kerala & Mahe and North Interior Karnataka.
- Heat Wave conditions were observed in isolated pockets over West Madhya Pradesh.
- Maximum Temperature Departures (as on 23-03-2022): Maximum temperatures were markedly above normal (5.1°C or more) at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Assam-Meghalaya; at a few places over Himachal Pradesh and Arunachal Pradesh; at isolated places over Punjab; appreciably above normal (3.1°C to 5.0°C) at most places over Uttarakhand and Haryana-Chandigarh-Delhi; at many places over West Madhya Pradesh and Jharkhand; at a few places over West Uttar Pradesh, West Rajasthan, Sub-Himalayan West Bengal & Sikkim, Konkan & Goa and Vidarbha; at isolated places over East Uttar Pradesh, East Madhya Pradesh, Nagaland-Manipur-Mizoram-Tripura, Gangetic West Bengal, Odisha and Saurashtra & Kutch; above normal (1.6°C to 3.0°C) at most places over East Rajasthan; at many places over Bihar, Marathwada and Coastal Karnataka; at a few places over Chhattisgarh; at isolated places over Telangana and Tamil Nadu, Puducherry & Karaikal. They were below normal (-1.6°C to -3.0°C) at isolated places over Andaman & Nicobar Islands and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 41.6°C was reported at Akola (Vidarbha) over the country.
- Minimum Temperature Departures (as on 24-03-2022): Minimum temperatures are markedly above normal (5.1°C or more) at a few places over West Madhya Pradesh and Madhya Maharashtra; at isolated places over Himachal Pradesh, Punjab, Rajasthan and East Madhya Pradesh; appreciably above normal (3.1°C to 5.0°C) at most places over Marathwada; at many places over Gujarat Region; at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Haryana, Chandigarh & Delhi, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Konkan & Goa; at isolated places over East Uttar Pradesh, Sub-Himalayan West Bengal-Sikkim, Vidarbha, Saurashtra & Kutch and Tamil Nadu, Puducherry-Karaikal; above normal (1.6°C to 3.0°C) at most places over Uttarakhand; at many places over Odisha and Coastal Andhra Pradesh & Yanam; at a few places over Gangetic West Bengal, Arunachal Pradesh, Telangana, Karnataka, Rayalaseema, Kerala & Mahe and Andaman & Nicobar Islands and

near normal over rest parts of the country. Today, the lowest minimum temperature of 15.4°C is reported at Meerut (West Uttar Pradesh) over the plains of the country.

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

- 24 March (Day 1): Heavy rainfall at isolated places very likely over Coastal & South Interior Karnataka and Arunachal Pradesh. Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places very likely over Assam-Meghalaya and with lightning at isolated places over south Konkan & Goa, Sub-Himalayan West Bengal & Sikkim, Karnataka, Tamilnadu-Puducherry-Karaikal, Kerala & Mahe, Lakshadweep, Arunachal Pradesh and Nagaland-Manipur-Mizoram-Tripura.
- 25 March (Day 2): Heavy rainfall at isolated places very likely over Arunachal Pradesh. Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places very likely over Assam-Meghalaya and with lightning at isolated places over south Konkan & Goa, Kerala & Mahe, Karnataka, Tamilnadu-Puducherry-Karaikal, Arunachal Pradesh and Nagaland-Manipur-Mizoram-Tripura. Heat wave conditions in isolated pockets very likely over Saurashtra & Kutch.
- 26 March (Day 3): Thunderstorm accompanied with lightning at isolated places very likely over Arunachal Pradesh, Assam-Meghalaya, Nagaland and Kerala-Mahe. Heat wave conditions in isolated pockets very likely over Gujarat state.
- 27 March (Day 4): Thunderstorm accompanied with lightning at isolated places likely over Kerala-Mahe. Heat wave conditions in isolated pockets likely over Gujarat state.
- 28 March (Day 5): Thunderstorm accompanied with lightning at isolated places likely over Kerala-Mahe. Heat wave conditions in isolated pockets likely over Gujarat state.
- The weather outlook for seven days i.e., 24 Mar to 01 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)

### Gujarat

#### Weather condition:

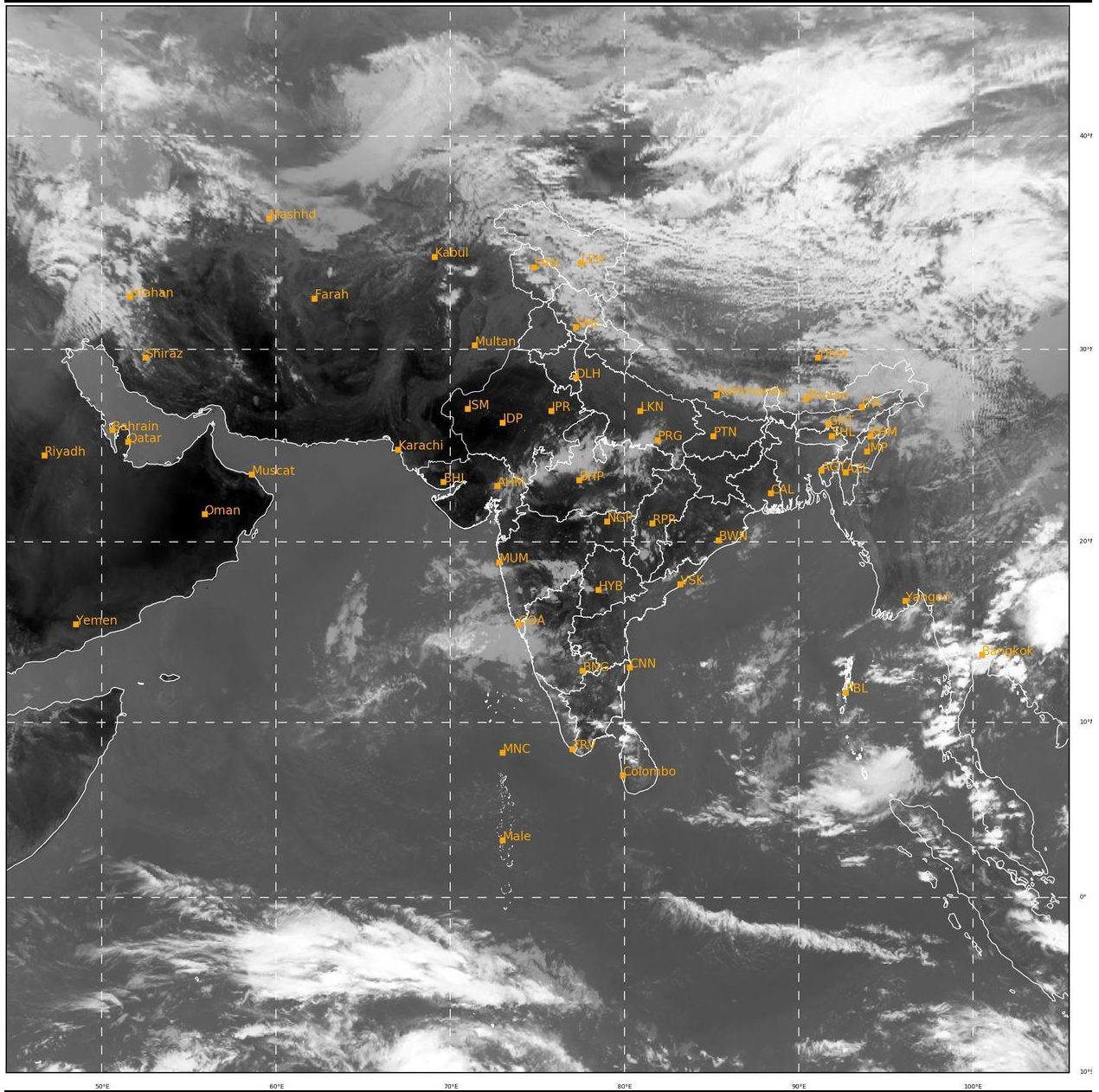
The actual maximum temperature was 3.0 °C and actual minimum temperature was 2.3 °C higher as compared to their normals. Total BSS was 68.2 hrs. with an average of 9.7 hrs. The daily average evaporation and wind speed was 6.8 mm and 3.1 km/hr respectively. The daily average RH during morning and afternoon was 69.9 % and 25.6 % respectively.

#### Contingency measure:

- Wheat: Harvesting : Harvest mature crop and keep in the field for sun drying.
- Mustard : Maturity/Harvesting : Harvest the mature crop and keep it in the field for sun drying. Protect the harvested crop from birds. Threshing of well sun dried crop in afternoon.
- Pearl millet : Carry out inter-culturing and weeding at 15-20 days after sowing. If necessary, second inter-culturing and weeding should be done 30-35 DAS.
- Tobacco : Harvest the mature leaves by curing or priming method and keep it for sun dry. Collect well dried leaves in morning hours and store in safe place.
- Gram: Maturity : Harvest mature crop in morning hours and keep in the field for sun drying. Protect crop from bird damage.
- Chilli : For control of thrips, spray neem seed oil 30 to 50 ml in 10 litter of water. In case of heavy attack, spray of spinosad 3 ml per 10 litter.
- Tomato: There is possibility of incidence of spotted wilt virus, spray Carbendenzim (50 % WP) 5 g in 10 liter water at 10 to 12 days interval.
- Castor : To control capsule borer, spray neem seed kernal powder (5% extract) 500 g or Beauveria bassiana or Verticillium lecanii fungus powder 40 g in 10 liter of water.
- Vegetables : Flowering/ Reproductive : For the control of White fly/Aphid spray neem seed extract 500 ml or neem seed oil 50 ml in 10 liter water at 15 days interval (4 sprays) or Acetamiprid 20 % SP@ 5.0 gm/10 liter water at 15 days interval.
- Cattle : Keep animal shed hygienic and clean to avoid flies and mosquitoes. Keep the animals indoor at night time. Disease (like, Anthraces, milk fever and Brucellosis) infected animals to regular check-up and regular vaccination for the animal.

SAT : INSAT-3D IMG  
IMG\_TIR1 10.8 um  
L1C Mercator

24-03-2022/(0830 to 0856) GMT  
24-03-2022/(1400 to 1426) IST

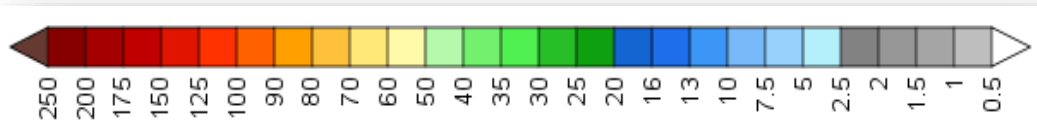
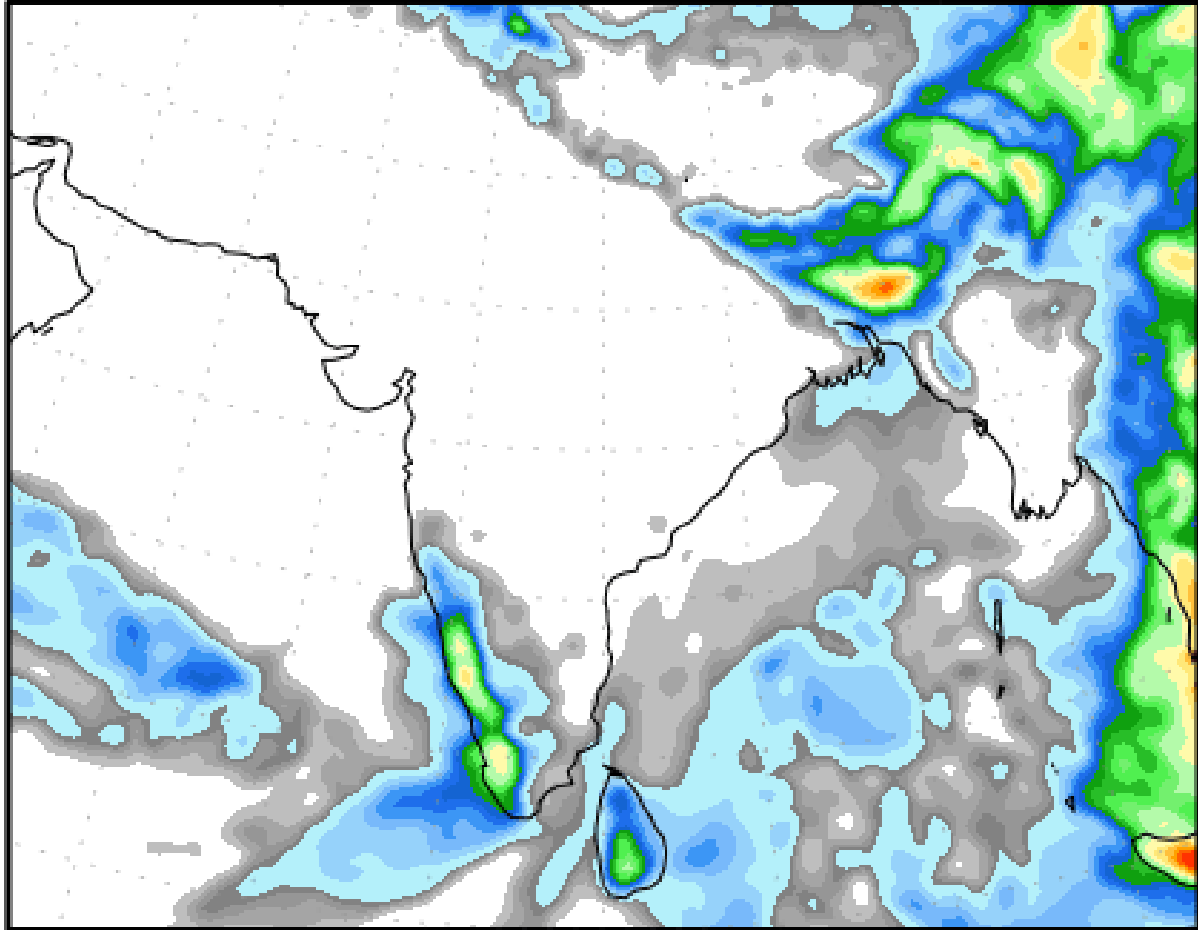


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IMD,DELHI

Figure: 1. Latest available satellite picture as on 24 Mar 2022 at 1426 Hrs (IST). (Source: IMD).



**Figure:2. Precipitation forecast for 24 Mar to 01 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.*