

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 15 March 2022

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Significant Weather Features (IMD)

- Weather systems and Forecast:
- A Low Pressure Area is likely to form over Equatorial Indian Ocean & adjoining Southwest Bay of Bengal during next 24 hours. Under its influence:
 - i) Scattered to widespread rainfall very likely over Andaman & Nicobar Islands during 15th-19th March with isolated thunderstorm/ lightning on 18th & 19th 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 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-19th; Tamilnadu, Puducherry & Karaikal on 18th & 19th 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 15th- 17th and Heat Wave conditions in isolated pockets over the region on 18th March, 2022.
- Heat Wave conditions to Severe Heat Wave conditions very likely to prevail in isolated pockets over Konkan and Saurashtra-Kutch on 15th and Heat Wave conditions in isolated pockets over the region on 16th March, 2022.
- Heat Wave conditions very likely to prevail in isolated pockets over Gujarat Region, West Madhya Pradesh during 15th-17th; over 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 of yesterday to 0830 hours IST of today): at a few places over Andaman & Nicobar Islands and at isolated places over Nagaland and Jammu & Kashmir.
- Heat Wave conditions in some pockets with Severe Heat Wave conditions in isolated pockets observed over Saurashtra-Kutch; and Heat Wave to Severe Heat Wave conditions in some pockets over Konkan-Goa and West Rajasthan and Heat Wave conditions in isolated pockets over Gujarat Region.
- Maximum Temperature Departures (as on 14-03-2022): Maximum temperatures were markedly above normal (5.1°C or more) at most places over Himachal Pradesh and West Rajasthan; at many places over Jammu-Kashmir-Ladakh-GilgitBaltistan-Muzaffarabad, Uttarakhand, Konkan & Goa and Assam-Meghalaya; at a few places over East Rajasthan, Punjab and Sub-Himalayan West Bengal-Sikkim; at isolated places over Gujarat state and Arunachal Pradesh; appreciably above normal (3.1°C to 5.0°C) at most places over Haryana-Chandigarh-Delhi and Nagaland-Manipur-Mizoram-Tripura; at a few places over Madhya Pradesh, Odisha and West Uttar Pradesh; at isolated places over Kerala-Mahe and Coastal Andhra Pradesh-Yanam; above normal (1.6°C to 3.0°C) at most places over Jharkhand; at many places over East Uttar Pradesh, Vidarbha, Chhattisgarh, Telangana and Coastal Karnataka; at a few places over Gangetic West Bengal, Bihar, Tamil Nadu-PuducherryKaraikal and Andaman-Nicobar Islands and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 41.6°C was reported at Barmer (West Rajasthan) over the country.
- Minimum Temperature Departures (as on 15-03-2022): Minimum temperatures are 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 are 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. Today, the lowest minimum temperature of 11.2.0°C is reported at Fursatgunj (East Uttar Pradesh) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 15 March (Day 1): Heat Wave conditions in some parts with Severe Heat Wave conditions very likely in isolated pockets over West Rajasthan; Heat Wave to Severe Heat Wave conditions in isolated pockets over Saurashtra-Kutch and Konkan; Heat Wave conditions in isolated pockets over Gujarat Region and West Madhya Pradesh. 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.
- 16 March (Day 2): 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 3): 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 4): 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 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., 15 Mar to 23 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)

Maharashtra-Vidarbha

Weather condition:

Weekly average means (10 MW) at AICRPAM Akola centre: T max 34.1°C (normal 35.9°C), T min 17.2°C (normal 17.1°C). RH I 74 % (normal 48 %), RH II 28 % (normal 20 %). Evaporation rate 6.4 mm (normal 8.2 mm), Wind speed 2.0 km/hr (normal 5.6 km/hr) and BSH 6.4 hrs (normal 8.9 hrs). Maximum temperature across the week was 1.7°C below normal with a deviation of -7.2 to +0.1°C from normal. Minimum temperature across the week 0.1°C above normal with a deviation of -3.6 to +3.8°C from normal.

Contingency measure:

- Block level forecast (Akola) indicates mainly dry weather on during 11 March to 15 March. Ensure timely harvest of matured chickpea crop and store the produce at safe place. Delaying harvest beyond maturity and dry/warm weather can result in broken pod stems and dropped pods.
- Harvest the matured earlier sown or timely sown wheat crop and store at safer place. With prevailing dry weather apply irrigation to avoid soil moisture stress during milk stage in late sown Wheat crop.
- Undertake timely harvest of safflower crop when 90-95% capsules mature and leaves? colour becomes brownish.
- Undertake intercultural operations in summer groundnut and sunflower to loosen the surface soil and keep the crop weed. Under prevailing evaporative demand, apply irrigation in summer groundnut at an interval of 10-12 days, however judging field moisture condition.
- With prevailing dry weather, undertake need based irrigation (sprinkler) in summer sunflower judging field moisture condition, post emergence critical stages of irrigation include growing bud, flowering and seed development stages.
- With assured irrigation facility during peak summer months, sowing of summer green gram (Pusa Vaishakhi, PKVAKM-4 (Vaibhav)) can be continued till 15 March. Under prevailing dry weather condition, If possible irrigate the field before greengram sowing, so as to enhance germination of seed. Recommended @12-15 kg seed/ha and fertilizer @ 20:40:20 kg/ha N:P:K is advisable for summer greengram. Seed treatment with Trichoderma 4g/kg seed and, Rhizobium and PSB (each 250g / 10-15 kg seed) is advisable for summer greengram. With increasing evaporative demand, basin mulching in orchards particularly of

young plantation is advisable to conserve moisture and maintain thermal regime. Make provision of shade/thatches (made of harvested cotton/pigeonpea stalks or green net) to individual young/new plantation.

- Undertake need based timely irrigation to orchards. In citrus orchards, during March month due to rise in temperature drip irrigation should be given @ 12-53, 78-127, and 145-180 liters per day for trees 1-4, 5-7, 8 years old and above respectively. Follow double ring method of irrigation and irrigate orchard 7 to 10 days. Use mulching in basins.
- Cultivation of summer vegetables (okra, cluster bean, tinda, cowpea, cucumber, gourd) can be initiated during this period.
- Ensure availability of sufficient feed/forage, proper grazing time (morning/evening), provision of enough water as well as proper shelter during summer heat conditions for farm livestock.

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

15-03-2022/(0800 to 0827) GMT
15-03-2022/(1330 to 1357) IST

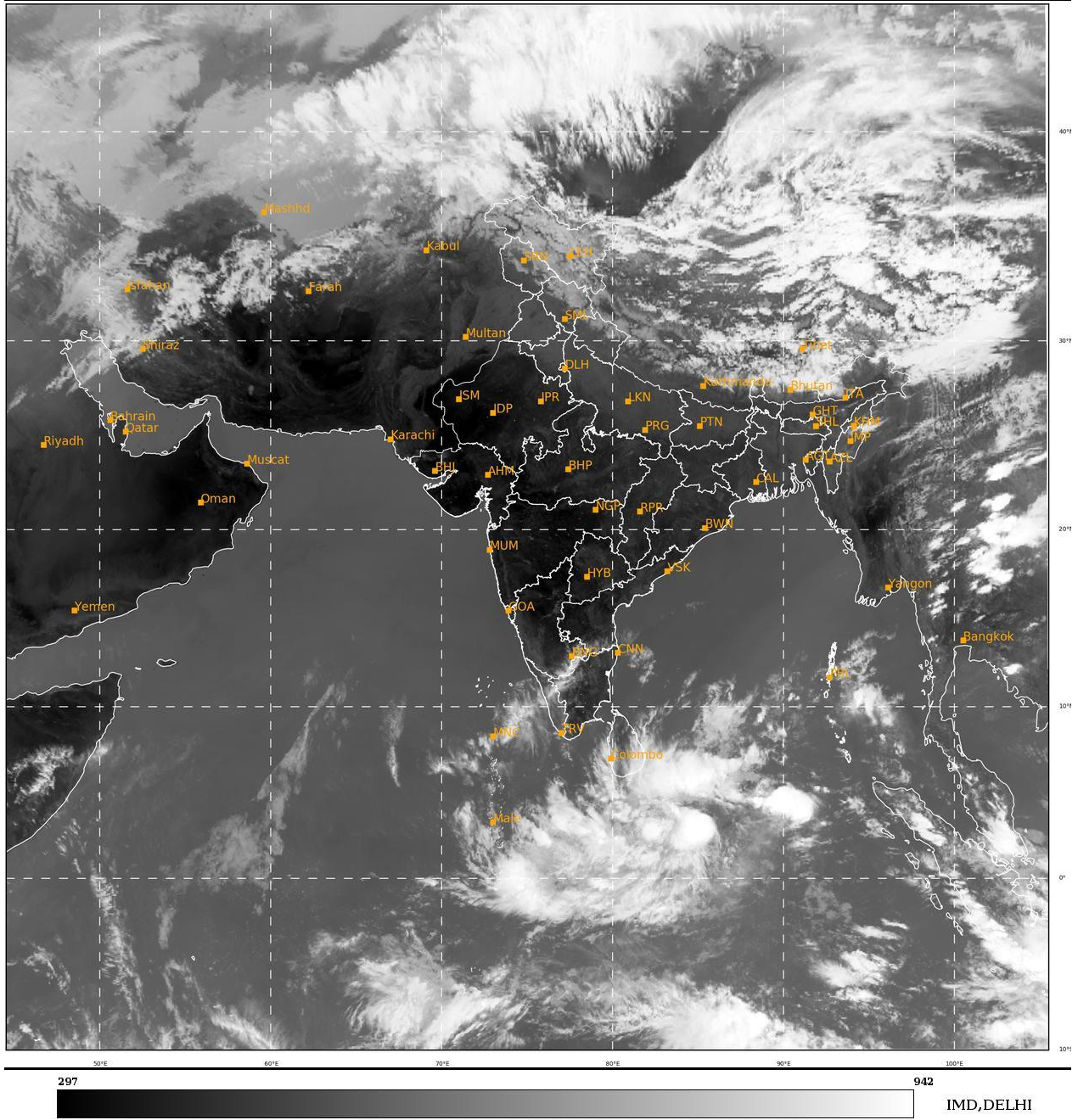


Figure: 1. Latest available satellite picture as on 15 Mar 2022 at 1357 Hrs (IST). (Source: IMD).

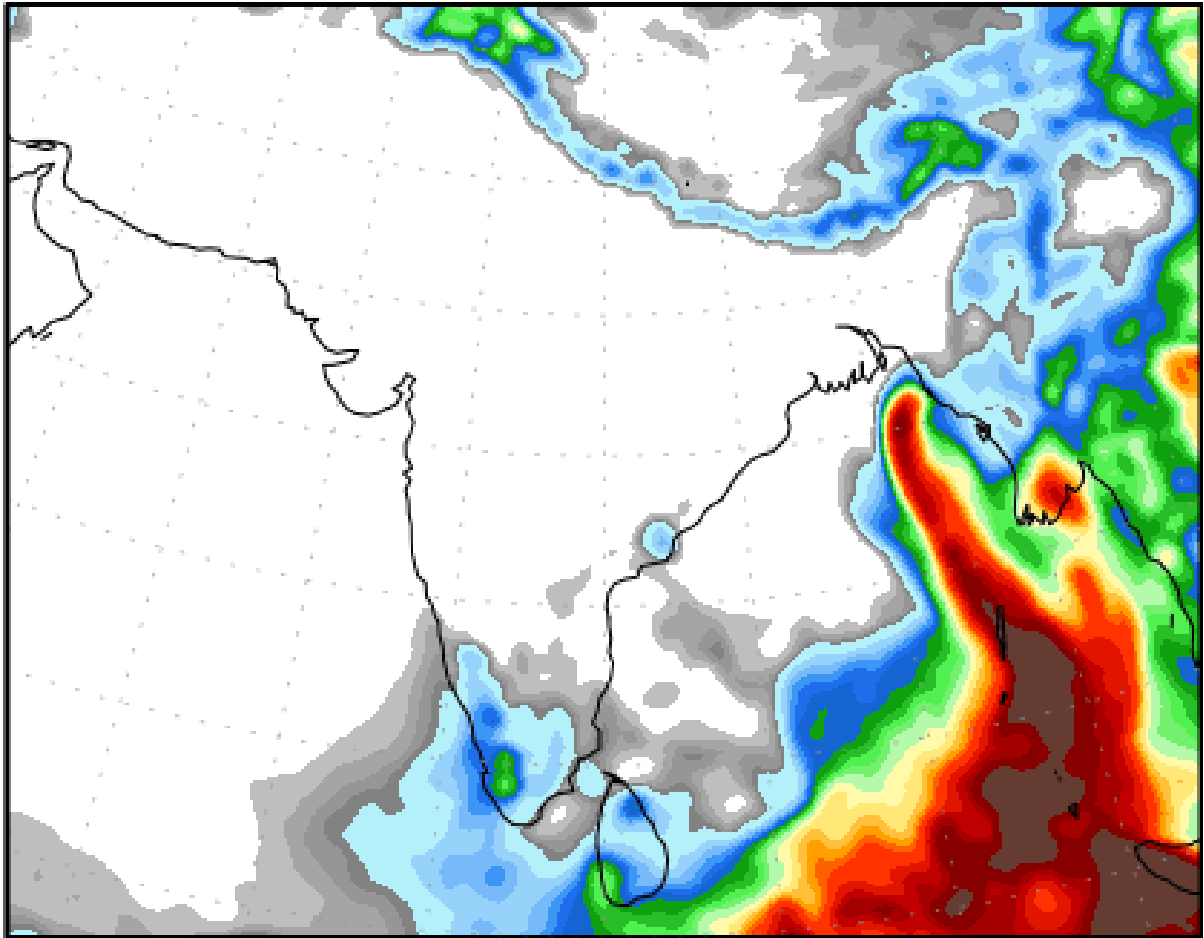


Figure:2. Precipitation forecast for 15 Mar to 23 Mar 2022 (Source: NOAA NCEP).

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