

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 13 March 2019

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A fresh Western Disturbance (along with an induced cyclonic circulation) and wind confluence between westerlies & easterlies (at lower levels) over Central India & adjoining northern plains are very likely to cause fairly widespread to widespread rain/snow over Western Himalayan Region (WHR) and isolated to scattered rainfall over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, north Rajasthan, Madhya Pradesh and Chhattisgarh on 13th & 14th. Thunderstorm accompanied with hailstorm, lightning & gusty winds at isolated places are also likely over Western Himalayan region, north Rajasthan & Punjab on 13th & 14th and over Haryana, Chandigarh & Delhi on 14th. Thunderstorm accompanied with lightning & gusty winds are likely over the remaining parts of Northwest & Central India on these two days.
- The wind confluence zone is likely to shift eastwards from 14th evening leading to a likely increase in rain/thundershower activity over East & Northeast India on 14th & 15th. Isolated to scattered/fairly widespread rainfall likely over Jharkhand, Gangetic West Bengal and adjoining areas of Odisha & Bihar on 14th & 15th with isolated thundersqualls and lighting over these regions during this period. The lightning is likely to decrease slightly on 16th over these regions to be followed by an increase from 17th onwards.
- The images showing the latest satellite picture in figure. 1.

Main Weather Observations (IMD)

- Rain/Thundershowers observed (from 0830 hours IST of yesterday to 0830 hours IST of today) at isolated places over Arunachal Pradesh, Assam & Meghalaya, Chhattisgarh, West Rajasthan, Saurashtra & Kutch and Odisha.
- Maximum temperature departures as on 12.03.2019: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Rayalaseema; at isolated places over Tamilnadu & Puducherry; above normal (1.6°C to 3.0°C) at most places over Jharkhand; at many places over Chhattisgarh and at isolated places over Gangetic West Bengal, Odisha, East Madhya Pradesh, Coastal Andhra Pradesh,

Telangana and Kerala. They were markedly below normal (-5.1°C or less) at isolated places over West Rajasthan; appreciably below normal (-3.1°C to -5.0°C) at many places over East Rajasthan; at a few places over Haryana, Chandigarh & Delhi; at isolated places over Gujarat Region & Himachal Pradesh; below normal (-1.6°C to -3.0°C) at many places over Saurashtra & Kutch; at a few places over Punjab and Andaman & Nicobar Islands and at isolated places over Jammu & Kashmir, West Madhya Pradesh and Konkan & Goa and near normal over rest parts of the country.

- Yesterday, the highest maximum temperature of 40.2°C was recorded at Anantapur (Rayalaseema) over the country.
- Minimum temperature departures as on 13.03.2019: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at most places over Chhattisgarh; at a few places Gangetic West Bengal, Jharkhand, Odisha; at isolated places over West Rajasthan, East Uttar Pradesh and East Madhya Pradesh; above normal (1.6°C to 3.0°C) at many places over Assam & Meghalaya, Bihar, Marathwada, Vidarbha, Telangana, North Interior Karnataka, Coastal Andhra Pradesh; at isolated places over Sub- Himalayan West Bengal & Sikkim, Arunachal Pradesh, Tripura, Haryana, Chandigarh & Delhi and Madhya Maharashtra. They are appreciably below normal (-3.1°C to -5.0°C) at isolated places over Himachal Pradesh ; below normal (-1.6°C to -3.0°C) at a few places over Jammu & Kashmir, East Rajasthan, West Madhya Pradesh, at isolated places over Gujarat Region and Kerala and near normal over rest parts of the country.
- The lowest minimum temperature of 8.4°C recorded at Lakhimpur Kheri (East Uttar Pradesh) over the plains of the country.

Weather Warning during next 5 days (IMD)

- 13 March (Day 1): Thunderstorm accompanied with hailstorm, lightning & gusty winds at isolated places very likely over Jammu & Kashmir, Himachal Pradesh, north Rajasthan and Punjab. Thunderstorm accompanied with lightning & gusty winds at isolated places very likely over Uttarakhand, Haryana, Chandigarh & Delhi, Madhya Pradesh, Chhattisgarh and north Coastal Andhra Pradesh.
- 14 March (Day 2): Thunderstorm accompanied with hailstorm, lightning & gusty winds at isolated places very likely over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi and north Rajasthan. Thunderstorm accompanied with lightning & gusty winds at isolated places very likely over Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Jharkhand, Bihar, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Sub-Himalayan West Bengal & Sikkim and Odisha.

- 15 March (Day 3): Thundersquall accompanied with lightning at isolated places very likely over Jharkhand and Gangetic West Bengal. Thunderstorm accompanied with lightning & gusty winds at isolated places very likely over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Bihar, Sub-Himalayan West Bengal & Sikkim and Odisha.
- 16 March (Day 4): Thunderstorm accompanied with lightning & gusty winds at isolated places very likely over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Vidarbha, Gangetic West Bengal and Jharkhand.
- 17 March (Day 5): Thundersquall accompanied with lightning & gusty winds at isolated places likely over north Odisha, Jharkhand and Gangetic West Bengal. Thunderstorm accompanied with lightning & gusty winds at isolated places very likely over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Vidarbha, Chhattisgarh and East Madhya Pradesh.
- The weather outlook for the period of seven days *i.e* 13 to 20 March 2019 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thundershower may occur over West Rajasthan, Saurashtra & Kutch, Chhattisgarh, , Odisha and North Eastern States. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

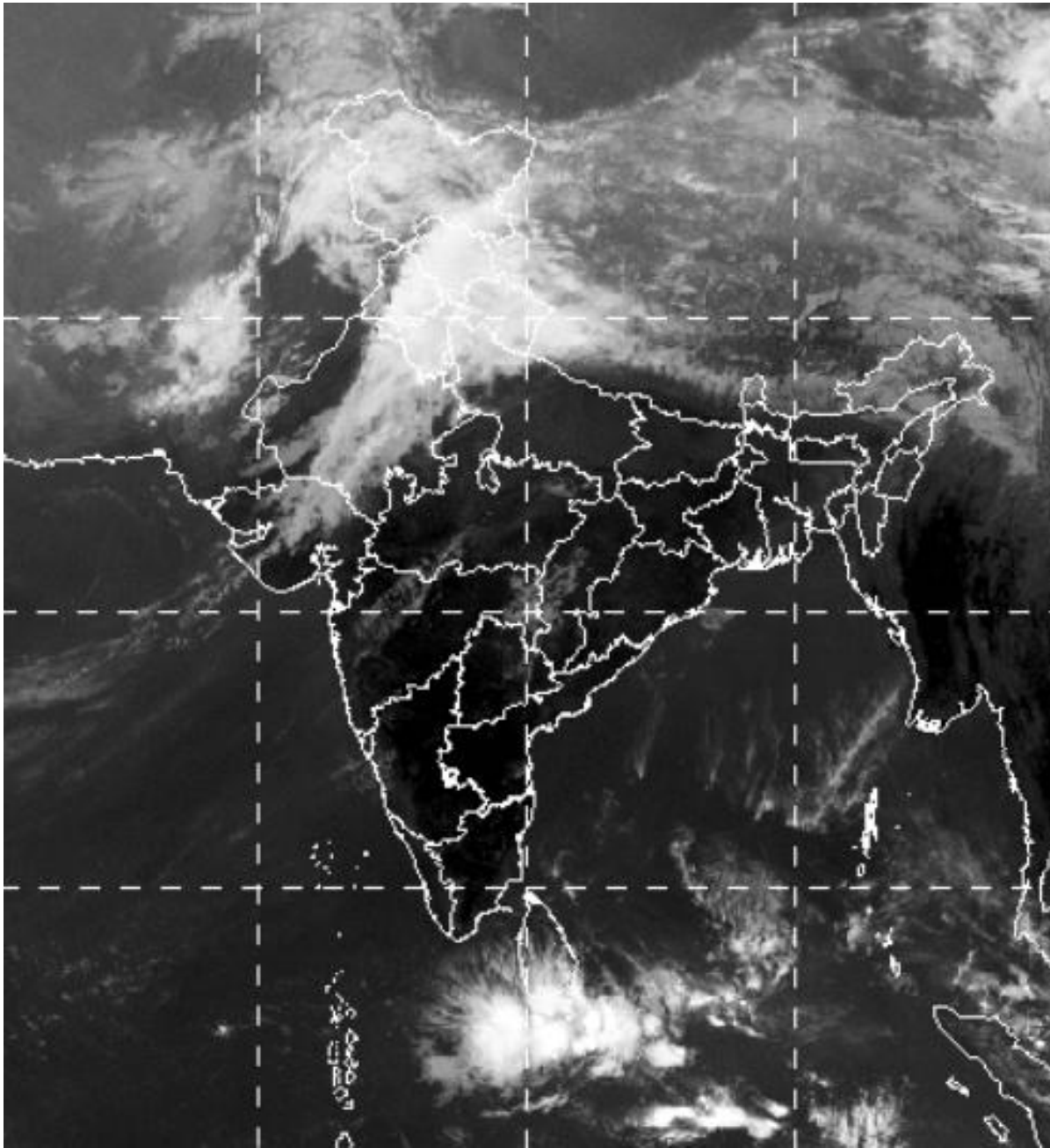
Konkan Region of Maharashtra

Weather condition:

Light rainfall received in Konkan region of Maharashtra state during past few days. The Maximum and minimum temperatures are ranged from 28.0 to 35.0°C and 12.0 to 16.5°C, respectively.

Contingency measure:

- **Groundnut:** There is possibility for incidences of leaf miner in groundnut, if incidence is notice spray Quinalphos 25%EC @ 20 ml. or Lambda cyhathrin 5%EC @ 6 ml per 10 liter of water
- **Mango:** Due to variation in temperature there is possibility of fruit drop of mango hence, provide irrigation for alphonso mango @ 150 to 200 lit. of water at fortnight interval for 3 to 4 times to reduce fruit drop and increase the size of fruits. Also use straw mulch to reduce evaporation. The pre harvest bagging with News paper bag at marble stage increases the fruit weight, pulp weight, produce spongy tissue free fruit, controls incidence of mealy bug on fruits and produces spotless fruits of mango. Provide support to newly planted mango graft, as there is forecast of high wind velocity. Provide irrigation to newly planted mango orchard and new growth below graft union should be removed regularly.
- **Cashewnut:** If nuts are ready for harvesting, harvest the mature nuts and dry in the sun for 7 to 8 days to bring down the moisture content. Prepare different processed product from cashew apple. Provide support to newly planted cashew graft, as there is forecast of high wind speed. Provide irrigation to newly planted cashew orchard and new growth below graft union should be removed regularly.
- **Coconut:** Due to increase in maximum temperature, provide irrigation to coconut orchard at 5 to 6 days interval. Provide support and shade to newly planted coconut orchard. For control of adults and grubs of rhinoceros beetle spray the FYM pits with Chlorpyrifos 20 ml in 10 lit of water at two months interval.
- **Milch animal /goat/poultry:** Provide clean and hygienic drinking water to farm animals. The temperatures during day are increasing hence protect poultry birds from heat.



**Figure: 1. Latest available satellite picture as on 13 March 2019 at 0230 Hrs (IST).
(Source: IMD).**

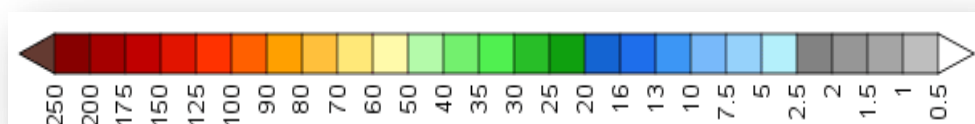
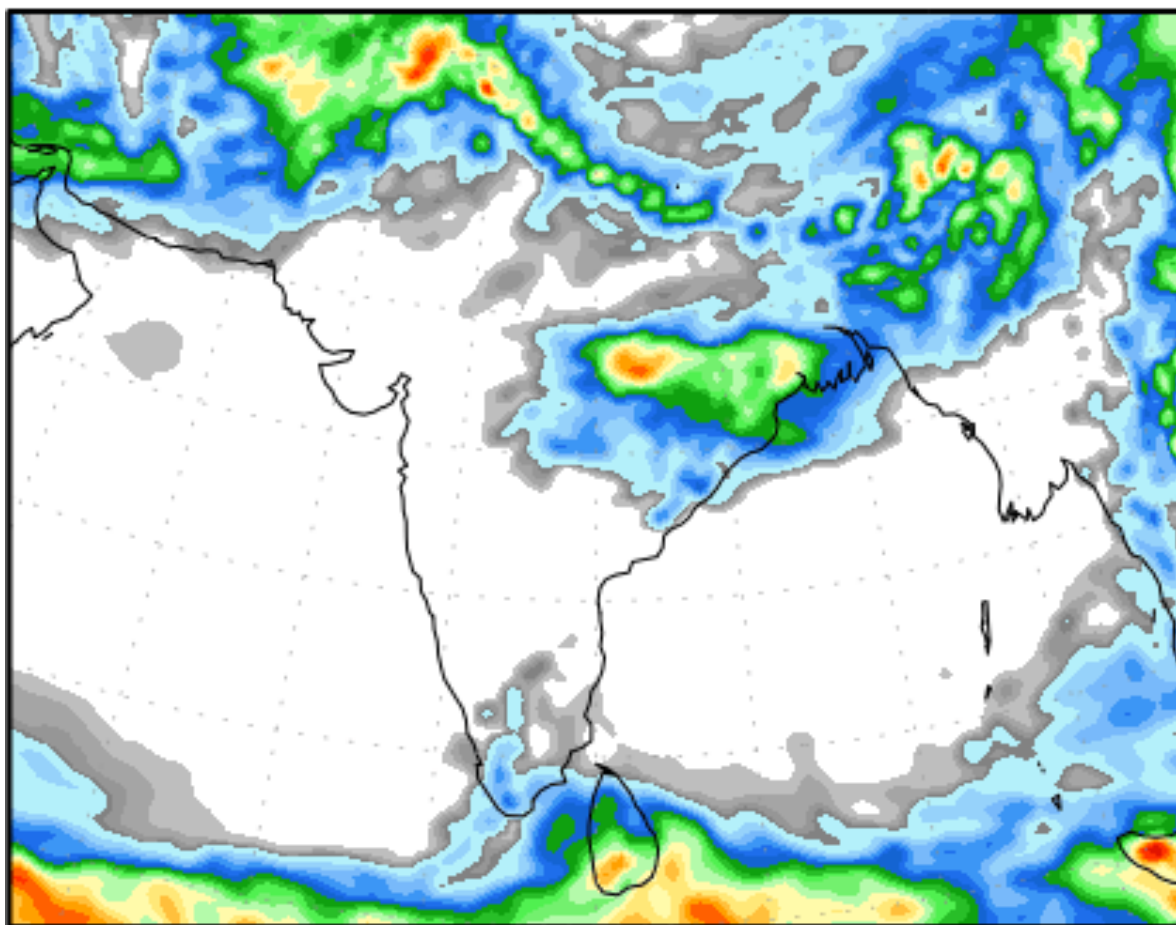


Figure: 2. Precipitation forecast for 13 to 20 March 2019 (Source: NOAA NCEP).