

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 11 March 2019

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Under the influence of the current Western Disturbance over East Afghanistan & neighbourhood, an induced cyclonic circulation has developed over West Rajasthan & neighbourhood. It is very likely to cause fairly widespread to widespread rain/snow with isolated heavy falls over Western Himalayan Region and isolated to scattered rainfall over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh and Rajasthan on today which will decrease significantly by tomorrow. Thunderstorm accompanied with hailstorm, lightning & gusty winds also very likely over Western Himalayan Region, West Rajasthan & Punjab and Thunderstorm accompanied with lightning & gusty winds over north Haryana, West Uttar Pradesh & East Rajasthan on today.
- Thereafter, 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 plains of northwest India and Central & adjoining East India on 14th & 15th. Thunderstorm accompanied with hailstorm, lightning & gusty winds are likely over WHR & West Rajasthan on 13th and over entire Northwest India on 14th. Thunderstorm accompanied with lightning & gusty winds are likely over Central India on 14th; over East India on 14th & 15th and over Northeast India on 15th.
- The images showing the latest satellite picture in figure. 1.

Main Weather Observations (IMD)

- Rain/Snow observed (from 0830 hours IST of yesterday to 0830 hours IST of today) : at a few places over Jammu & Kashmir, Arunachal Pradesh, Assam & Meghalaya, Haryana, West Rajasthan, Sub-Himalayan West Bengal & Sikkim and Kerala.
- Maximum temperature departures as on 10.03.2019: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Jammu & Kashmir; at isolated place over Himachal Pradesh, North Interior Karnataka, Kerala and

Tamilnadu & Puducherry; above normal (1.6°C to 3.0°C) at most places over Rayalaseema and South Interior Karnataka; at a few places over Odisha, Vidarbha, Madhya Maharashtra, Konkan & Goa, Telangana and Lakshadweep; at isolated places over Punjab, Jharkhand, Gangetic West Bengal, Marathwada, Madhya Pradesh and Coastal Andhra Pradesh. They were appreciably below normal (-3.1°C to -5.0°C) at a few places over Assam & Meghalaya and East Rajasthan; at isolated places over Haryana, Chandigarh & Delhi and Sub-Himalayan West Bengal & Sikkim; below normal (-1.6°C to -3.0°C) at a few places over Nagaland, Manipur, Mizoram & Tripura and Andaman & Nicobar Islands; at isolated places over West Rajasthan and Gujarat and near normal over rest parts of the country.

- Yesterday, the highest maximum temperature of 37.4°C was recorded at Kurnool (Rayalaseema) & Gulbarga (North Interior Karnataka) over the country.
- Minimum temperature departures as on 11.03.2019: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at a few places over Jammu & Kashmir, Gujarat, West Madhya Pradesh, Gangetic West Bengal, Odisha, Telangana and Rayalaseema; at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, East Rajasthan, East Madhya Pradesh, Madhya Maharashtra, Coastal Andhra Pradesh and South Interior Karnataka; above normal (1.6°C to 3.0°C) at most places over Jharkhand; at a few places over Himachal Pradesh, West Rajasthan, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Kerala and Tamilnadu & Puducherry; at isolated places over Sub-Himalayan West Bengal & Sikkim, Bihar and Coastal Karnataka. They are appreciably below normal (-3.1°C to -5.0°C) at isolated places over Vidarbha and Andaman & Nicobar Islands; below normal (-1.6°C to -3.0°C) at a few places over Konkan & Goa; at isolated places over East Uttar Pradesh and Chhattisgarh and near normal over rest parts of the country.
- The lowest minimum temperature of 10.4°C recorded at Mandla (East Madhya Pradesh) over the plains of the country.

Weather Warning during next 5 days (IMD)

- 11 March (Day 1): Thunderstorm accompanied with hailstorm, lightning & gusty winds very likely over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab and West Rajasthan. Thunderstorm accompanied with lightning & gusty winds very likely over Haryana, Chandigarh & Delhi, West Uttar Pradesh and East Rajasthan. Heavy rain/snow very likely over Jammu & Kashmir and Himachal Pradesh.
- 12 March (Day 2): No weather warning.
- 13 March (Day 3): Thunderstorm accompanied with hailstorm, lightning & gusty winds very likely over Jammu & Kashmir, Himachal Pradesh, Uttarakhand and

West Rajasthan. Thunderstorm accompanied with lightning & gusty winds very likely over East Madhya Pradesh.

- 14 March (Day 4): Thunderstorm accompanied with hailstorm, lightning & gusty winds likely over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh and Rajasthan. Thunderstorm accompanied with lightning & gusty winds likely over Madhya Pradesh, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim and Odisha.
- 15 March (Day 5): Thunderstorm accompanied with lightning & gusty winds likely over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, West Bengal & Sikkim and Odisha.
- The weather outlook for the period of seven days *i.e* 11 to 18 March 2019 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thundershower may occur over Jammu & Kashmir, Haryana, West Rajasthan, Sub-Himalayan West Bengal & Sikkim, Kerala and North Eastern States. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

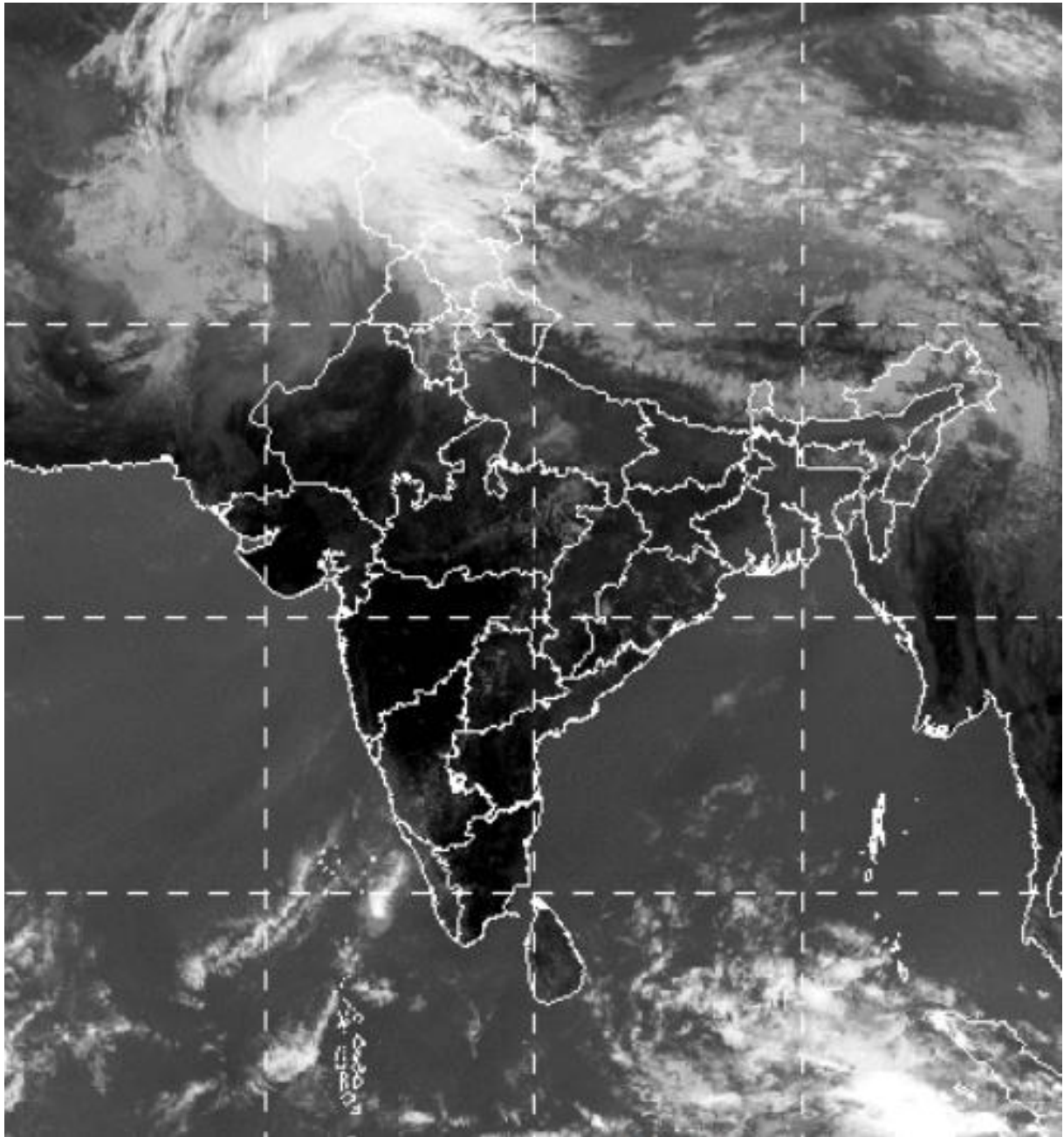
Vidarbha Region

Weather condition:

Dry weather prevailed in Vidarbha region of Maharashtra state during past few days. Maximum temperature was 1.4 °C below normal and minimum temperature was 1.0°C above normal.

Contingency measure:

- Gradual rise in temperature by 2-3°C over central part of Indi. Ensure timely harvest of matured rabi crops and safe storage of harvested produce in the event of unseasonal rains. With increasing evaporative demand, tree basins of fruit crops should be mulched to conserve moisture, maintain thermal regimes and suppress weeds.
- Use irrigation water judiciously in view of the lowering and depleting ground water table and ensuing summer season. Cultivation of leafy vegetables (fenugreek, spinach, etc.) and summer vegetables like okra, bitter gourd, tinda, gourds, cowpea, cluster bean, coriander, etc can be initiated during this period.
- Juvenile/young plantation should be staked with mulching of basins. Also make provision of thatches to individual young plantation during desicating summer months. Thatches may be made of cotton/pigeonpea stalks/green shade net.
- Planting of fodder crops (Maize- African tall, Sorghum- Pusa chari, MP chari, SSG-898) be undertaken during this time. Provision of green forage/clean water and also screening of farm livestock, drought/milch animals for diseases be farm livestock, Farm livestock should be vaccinated against foot and mouth disease (FMD).



**Figure: 1. Latest available satellite picture as on 11 March 2019 at 0230 Hrs (IST).
(Source: IMD).**

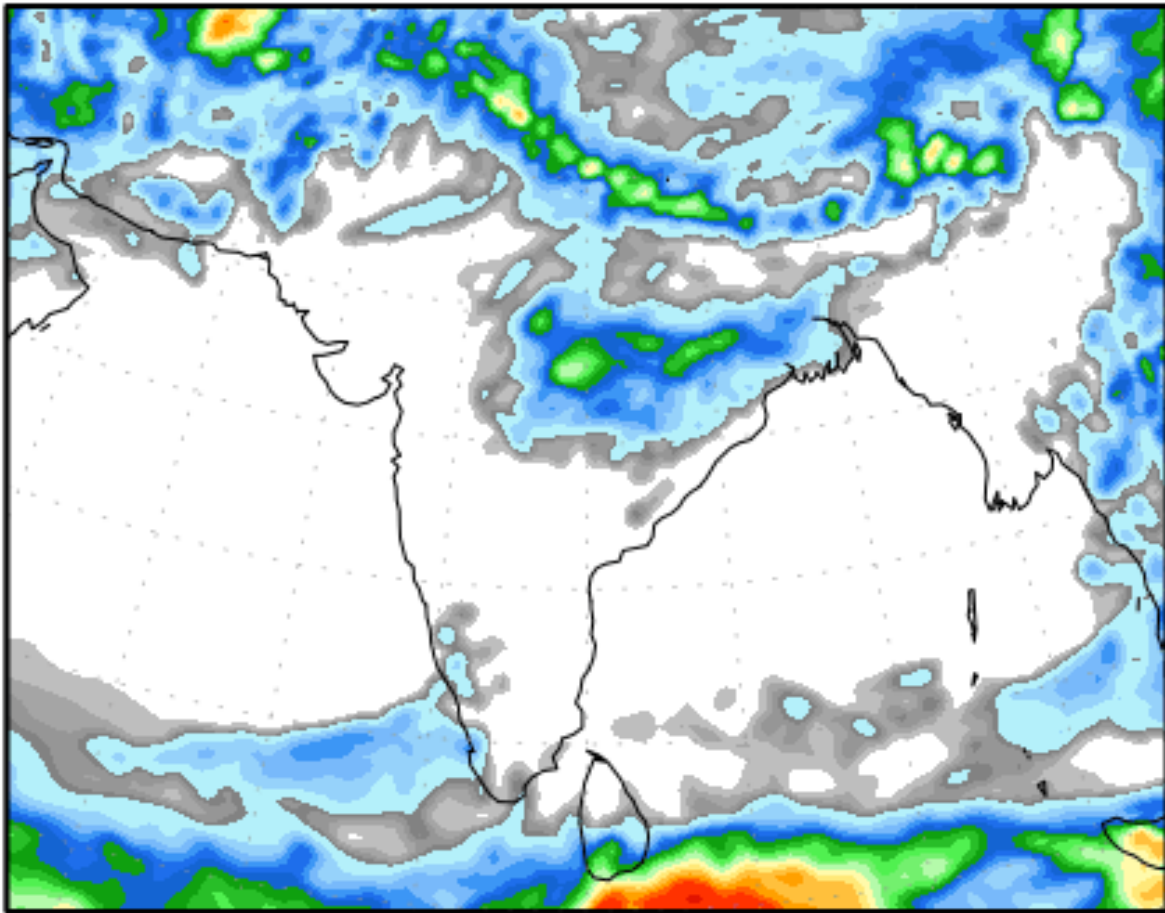


Figure: 2. Precipitation forecast for 11 to 18 March 2019 (Source: NOAA NCEP).