

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 21 March 2019

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A wind confluence zone across eastern parts of central and adjoining peninsular India caused isolated rain / thundershowers over south Madhya Pradesh, Vidarbha, Chhattisgarh, Telangana and Odisha during past 24 hours. Isolated hailstorms were also reported over parts of Vidarbha and Telangana during the period. This activity, though with reduced intensity is very likely to continue over these regions during the next 24 hours.
- Scattered to fairly widespread rain/thundershowers are very likely over northeast India during next 2 days. Isolated thunder squalls and lightning are likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura and Arunachal Pradesh during the same period.
- Day's maximum temperatures are likely to remain near normal over major parts of the country during next 3 days. At present, maximum temperatures are above normal by 2-3°C over parts of Kerala and Rayalaseema. A gradual rise in these temperatures by 2-3°C is likely over parts of Kerala and also over Maharashtra and Gujarat from 22nd March. Significant level of Heat stress conditions are likely to develop over Kerala and also over north Konkan, which could affect outdoor activities including farming, recreation etc, from 25th March.
- 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 most places over Jammu & Kashmir, Himachal Pradesh and Uttarakhand, Arunachal Pradesh; at a few places over Odisha and at isolated places over west Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan west Bengal & Sikkim, Assam & Meghalaya, Tripura, Telangana and Kerala.
- Maximum temperature departures as on 20.03.2019: Maximum temperatures are appreciably above normal (3.1°C to 5.0°C) at isolated places over Haryana, Chandigarh & Delhi; above normal (1.6°C to 3.0°C) at many places over Punjab,

- Uttarakhand, West Madhya Pradesh and Kerala; at isolated places over East Rajasthan, East Madhya Pradesh, Vidarbha, Madhya Maharashtra, Rayalaseema and Tamilnadu & Puducherry. They are appreciably below normal (-3.1°C to -5.0°C) at most places over Jammu & Kashmir; at many places over Himachal Pradesh and at isolated places over Saurashtra & Kutch and Sub- Himalayan West Bengal & Sikkim; below normal (-1.6°C to -3.0°C) at many places over Gangetic West Bengal; at a few places over West Rajasthan and Assam & Meghalaya and at isolated places over Gujarat Region, Odisha, Chhattisgarh and Andaman & Nicobar Islands and near normal over rest parts of the country.
- The highest maximum temperature of 41.0°C recorded at Anantapur (Rayalaseema) over the country.
- Minimum temperature departures as on 21.03.2019: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at isolated places over West Uttar Pradesh; above normal (1.6°C to 3.0°C) at many places over north Rajasthan; at a few places over Haryana, Chandigarh & Delhi, East Uttar Pradesh, Madhya Pradesh, Rayalaseema and Coastal Andhra Pradesh and at isolated places over Bihar, West Bengal, Odisha, Telangana and Tamilnadu. They are appreciably below normal (-3.1°C to -5.0°C) at isolated places over Madhya Maharashtra; at many places over Jammu & Kashmir and Himachal Pradesh; at a few places over East Rajasthan, south Madhya Pradesh, Chhattisgarh, Bihar and Gangetic West Bengal and at isolated places over Saurashtra & Kutch, Odisha and Vidarbha and near normal over rest parts of the country.
- The lowest minimum temperature of 12.5°C recorded at Bhilwara (Rajasthan) over the country.

Weather Warning during next 5 days (IMD)

- 21 March (Day 1): Thundersquall accompanied with lightning at isolated places very likely over Assam & Meghalaya. Thunderstorm accompanied with hailstorm & lightning at isolated places very likely over Telangana. Thunderstorm accompanied with lightning & gusty winds at isolated places very likely over Nagaland, Manipur, Mizoram & Tripura, southeast Madhya Pradesh, north Coastal Andhra Pradesh, east Vidarbha, Chhattisgarh and Odisha.
- 22 March (Day 2): Thundersquall accompanied with lightning at isolated places very likely over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- 23 March (Day 3): Thunderstorm accompanied with gusty winds & lightning at isolated places very likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

- 24 March (Day 4): No weather warning.
- 25 March (Day 5): Thunderstorm accompanied with gusty winds & lightning at isolated places likely over north Coastal Andhra Pradesh and Telangana.
- The weather outlook for the period of seven days *i.e* 21 to 28 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, Himachal Pradesh, Uttarakhand, Sub-Himalayan west Bengal & Sikkim, West Uttar Pradesh, Madhya Pradesh, Chhattisgarh, Odisha Vidarbha, Telangana, Kerala and North Eastern States. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Southern region of Karnataka

Weather condition:

Dry weather prevailed in Southern region of Karnataka state during past few days. State actual rainfall for was 0.2 mm as against the normal of 1.2 mm with (-) 87 % deviation.

Contingency measure:

- Provide irrigation, as the fruits are in marble stage, this will helps for the better development of fruits.
- If sufficient water is available, irrigation can be given at 15-20 days interval starting from fruit setting till maturity.
- In already harvested fields the farmers are advised to remove the half cut stubbles of pigeon pea from their fields. This will avoid multiplication and spreading of sterility mosaic disease.
- The grains of the harvested crops should be properly dried by retaining moisture percentage of 11-12 % in Cereals, 9% in Pulses, 8% in Oilseeds and 5-6% in Vegetable seeds for long storage & also to minimize the store pest damage.
- To protect the pulse grains from storage pests apply oils of Castor/ linseed/honge/neem oil @ 3-5 ml per kg of grains.
- Livestock: Silage, hay and crop residues may be used for cattle feed when shortage of green fodder. Apply 4-6 inch thick thatch as a roofing material. Water can be used for spraying the floor and roof of shelter. Periodically water spray during peak hot hours lowers the temperature and consequently reduces the heat load on animals Proper ventilation should be maintained for free circulation of air in the sheds. Clean drinking water be provided to animals and water troughs should be regularly cleaned. Animals may be allow for grazing early in morning or later in evening.

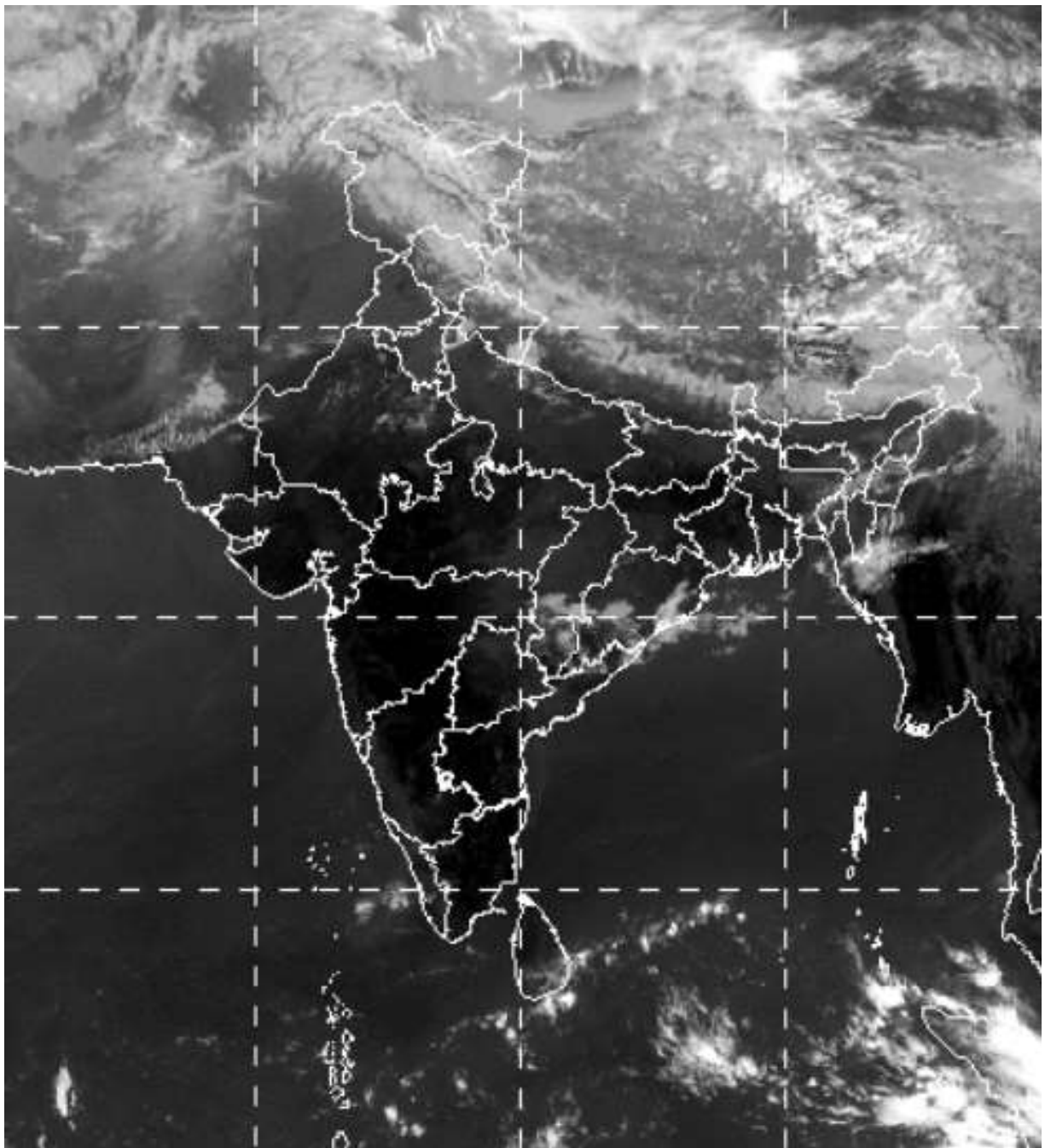


Figure: 1. Latest available satellite picture as on 21 March 2019 at 0230 Hrs (IST).
(Source: IMD).

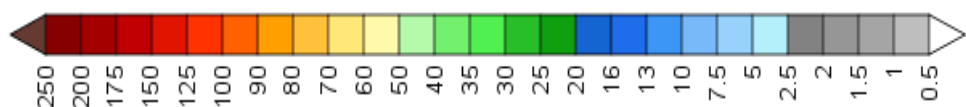
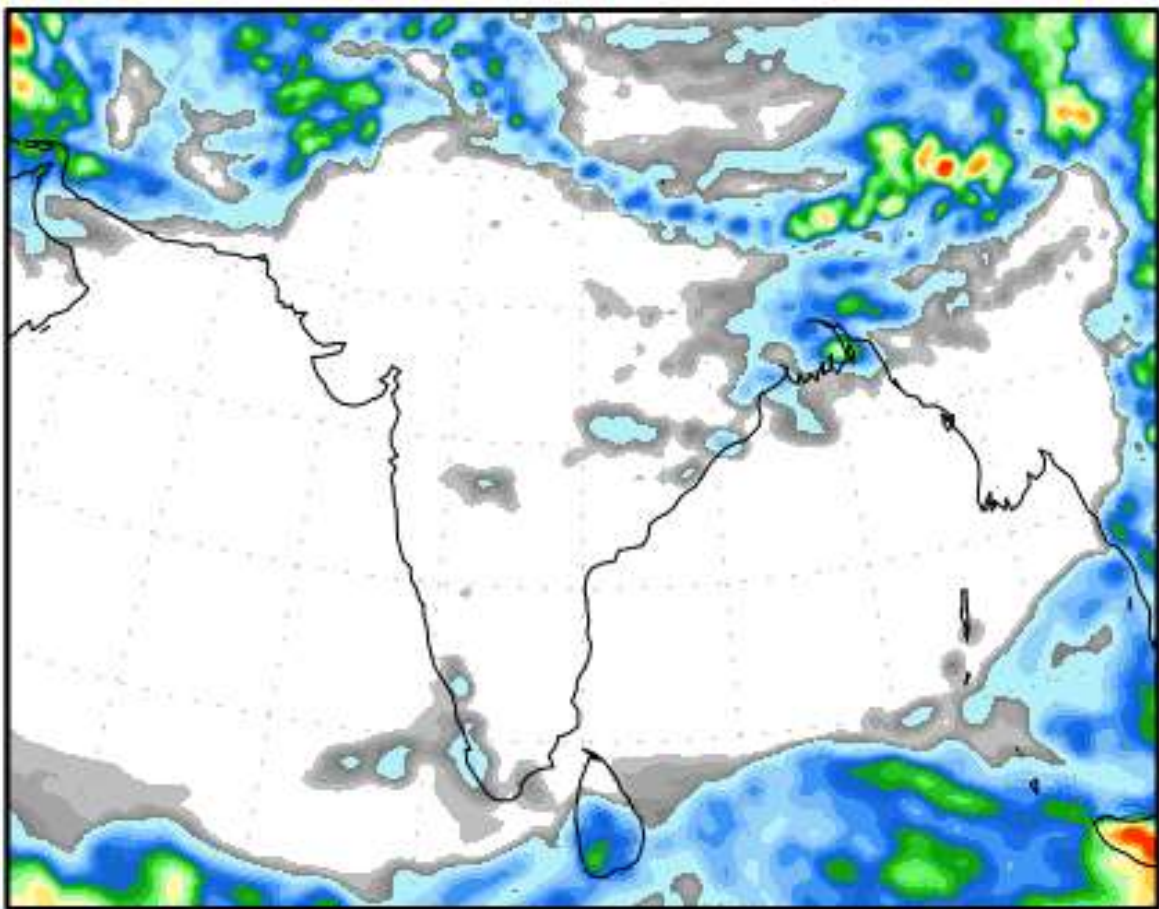


Figure: 2. Precipitation forecast for 21 to 28 March 2019 (Source: NOAA NCEP).