

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

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

### **Daily Crop Weather Information as on 27 March 2019**

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

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

- Scattered to fairly widespread rain/thundershowers are very likely over Northeast India along with isolated thunder squalls over the region during the next 24 hours. The activity is likely to pick up again during 30th and 31st March with fairly widespread to widespread rain/thundershowers along with isolated thundersquall/lightning over Northeast India and isolated to scattered rain/thundershowers over East India.
- Day maximum temperatures are likely to increase by 2-4°C over Northwest India by 2-3°C over East India and by 1-2°C over West and Central India during next 2-3 days.
- Heat wave conditions very likely to continue over coastal areas of Saurashtra and South Gujarat region during next 48 hours. Heat wave conditions at isolated places are likely over Vidarbha during next 3 days and are likely to develop over Southwest Madhya Pradesh after 24 hours.
- 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 most places over Arunachal Pradesh; at many places over Assam & Meghalaya and Bihar; at a few places over Gangetic West Bengal; at isolated places over East Uttar Pradesh and Jharkhand.
- Maximum temperature departures as on 26.03.2019: Maximum temperatures were markedly above normal (5.1°C or more) at many places over Saurashtra & Kutch and Jammu & Kashmir; at a few places over Konkan & Goa; appreciably above normal (3.1°C to 5.0°C) at a few places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and West Madhya Pradesh; at isolated places over Himachal Pradesh, East Madhya Pradesh, Chhattisgarh, South Interior Karnataka, Kerala and Tamilnadu & Puducherry; above normal (1.6°C to 3.0°C) at most places over Vidarbha; at many places over Marathwada; at a few places over Gujarat region, Madhya Maharashtra, Odisha and Gangetic West Bengal; at isolated places

over West Rajasthan. They were markedly below normal ( $-5.1^{\circ}\text{C}$  or more) at many places over Bihar; at a few places over Sub-Himalayan West Bengal & Sikkim; appreciably below normal ( $-3.1^{\circ}\text{C}$  to  $-5.0^{\circ}\text{C}$ ) at isolated places over East Uttar Pradesh and Jharkhand; below normal ( $-1.6^{\circ}\text{C}$  to  $-3.0^{\circ}\text{C}$ ) at a few places over Haryana, Chandigarh & Delhi and Andaman & Nicobar Islands and near normal over rest parts of the country.

- Yesterday, the highest maximum temperature of  $42.6^{\circ}\text{C}$  was recorded at Amraoti (Vidarbha) over the country.
- Minimum temperature departures as on 27.03.2019: Minimum temperatures are appreciably above normal ( $3.1^{\circ}\text{C}$  to  $5.0^{\circ}\text{C}$ ) at a few places over Saurashtra & Kutch; at isolated places over Himachal Pradesh, Telangana and North Interior Karnataka; above normal ( $1.6^{\circ}\text{C}$  to  $3.0^{\circ}\text{C}$ ) at a few places over West Rajasthan, West Madhya Pradesh, Vidarbha, Odisha, Coastal Karnataka and Andaman & Nicobar Islands; at isolated places over Gujarat region, Marathwada, Chhattisgarh, Coastal Andhra Pradesh, Konkan & Goa, Rayalaseema, Kerala and Tamilnadu & Puducherry. They are markedly below normal ( $-5.1^{\circ}\text{C}$  or more) at isolated places over Bihar and West Madhya Pradesh; appreciably below normal ( $-3.1^{\circ}\text{C}$  to  $-5.0^{\circ}\text{C}$ ) at a few places over East Rajasthan and Gangetic West Bengal; at isolated places Haryana, Chandigarh & Delhi, Sub-Himalayan West Bengal & Sikkim and Madhya Maharashtra; below normal ( $-1.6^{\circ}\text{C}$  to  $-3.0^{\circ}\text{C}$ ) at many places over Jharkhand ; at a few places over Jammu & Kashmir and East Uttar Pradesh; at isolated places over Punjab and near normal over rest parts of the country.
- The lowest minimum temperature of  $12.0^{\circ}\text{C}$  recorded at Sikar (East Rajasthan) & Rewa ( East Madhya Pradesh) over plains of the country.

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

- 27 March (Day 1): Thunderstorm accompanied with squall & lightning at isolated places very likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm accompanied with gusty winds & lightning at isolated places very likely over Arunachal Pradesh. Heat wave conditions at isolated pockets very likely over Coastal Saurashtra & South Gujarat region and Vidarbha.
- 28 March (Day 2): Thunderstorm accompanied with gusty winds & lightning at isolated places very likely over Kerala. Heat wave conditions at isolated pockets very likely over West Madhya Pradesh Coastal Saurashtra & South Gujarat region and Vidarbha.
- 29 March (Day 3): Thunderstorm accompanied with gusty winds & lightning at isolated places very likely over Jammu and Kashmir, Himachal Pradesh and Kerala.

Heat wave conditions at isolated pockets very likely over West Madhya Pradesh and Vidarbha.

- 30 March (Day 4): Thunderstorm accompanied with squall & lightning at isolated places very likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm accompanied with gusty winds & lightning at isolated places very likely over Jammu & Kashmir, Arunachal Pradesh, Coastal Andhra Pradesh, Telangana and Kerala.
- 31 March (Day 5): Thunderstorm accompanied with squall & lightning at isolated places very likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm accompanied with gusty winds & lightning at isolated places very likely over Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Arunachal Pradesh and Coastal Andhra Pradesh.
- The weather outlook for the period of seven days *i.e* 27 March to 03 April 2019 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thundershower may occur over Gangetic West Bengal, East Uttar Pradesh Bihar, Jharkhand and North Eastern States. (Fig. 2).

## Agricultural activities (AICRPAM-CRIDA)

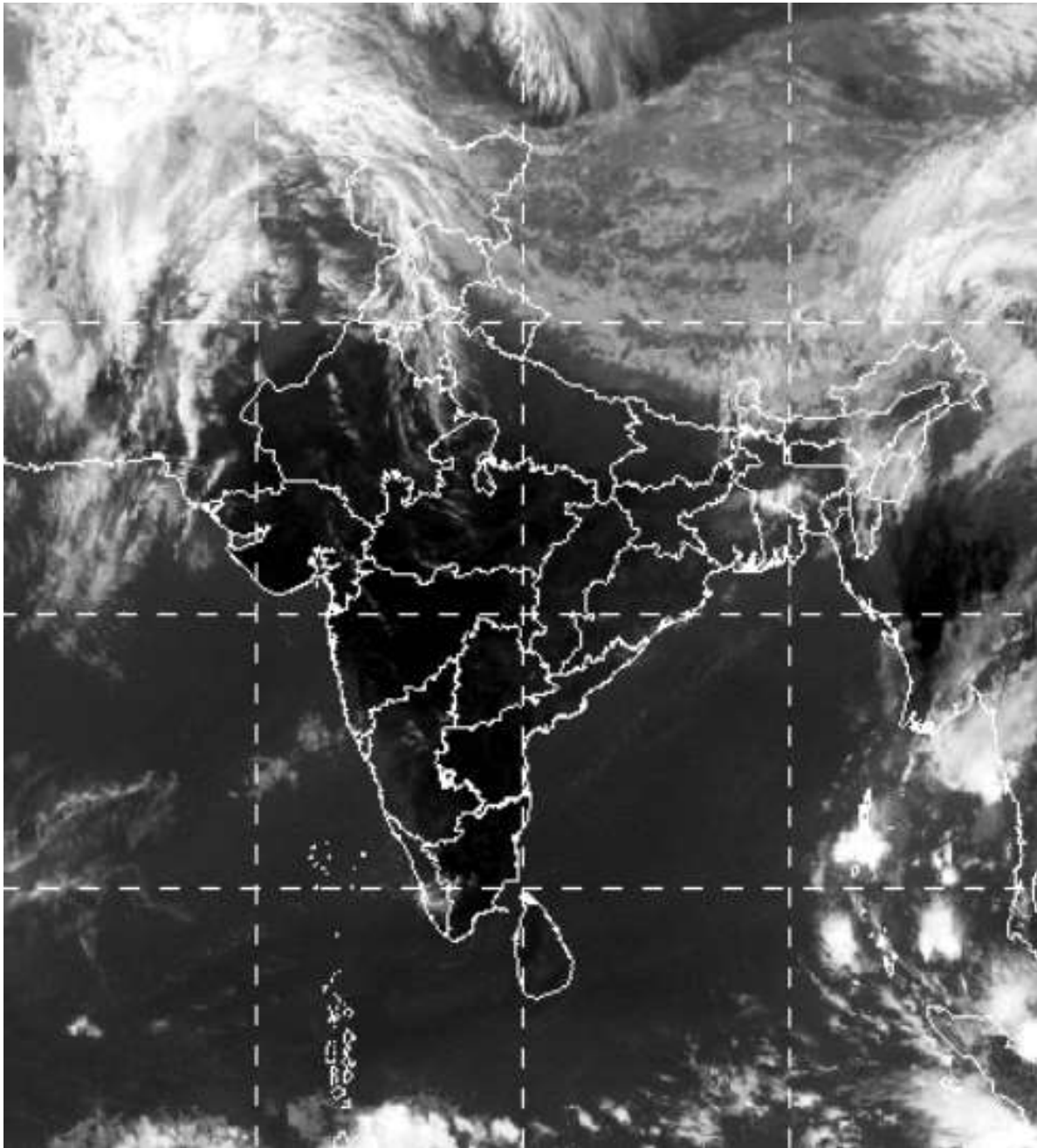
### Western Region of Uttar Pradesh

#### Weather condition:

Dry weather prevailed in Western Region of Uttar Pradesh state during past few days.

#### Contingency measure:

- Protection of Pigeon pea/chickpea from watchful insect and pest due to cloudy weather and higher temperature. If seen pad borer and semi lopper spray 1.5 liter Monocrotophas or Quinalphos 20% EC 2.0 lt/ha or Malathion 50 % Ec 2.0 lt/ha with 500 to 600 lt water on clear sky. Spray soluble Sulphur (80%) 2.0 kg/ha with 500-600 lt. water solution to protect from Powdery mildew on clear sky condition.
- Sowing of Maize crop should be taken up at clear sky, seed should be treated with 2.5 g Thiram or 2.0 g Agro-san G.N @ 3.0 g /kg of seed Composite and varieties Novjoti , Pusa-2, Sweta and Azad uttam and Hybrid varieties Hybrid Dakan-107, Malveya hybrid-2, JH-3459, Prakash, PSM-5, Pro-303, KH-510, MMH-113, Azad hybrid-1, Azad hybrid-2 , DKC-9108, DKC-7074 should be sown 18-20 kg/ha treated seed.
- Sowing of black gram crop should be taken up at clear sky, seed should be treated with Captan or Thiram @ 3.0 gm/kg of seed before sowing and varieties T-9, Narender Urd-1, Azaid Urd-1, Uttara, Azad Urd-2, and Shekhar-2 should be sown 20-25 kg/ha treated seed.
- Animal: Balanced ration should be given to animals to maintain regularity of milk production. Balanced ration should be prepared with 40% grain (Maize/wheat/sorghum etc.), 30% wheat bran, 27% mustard cake, 1% common salt, 1% chalk (khadia) and 1% mineral mixture. Plentiful supply of clean and safe water make available to dairy milch animals at least 3 times daily. Follow a regular vaccination programme in cattle, buffalo, goat, sheep and poultry to prevent the infectious diseases.



**Figure: 1. Latest available satellite picture as on 27 March 2019 at 0230 Hrs (IST).**

**(Source: IMD).**

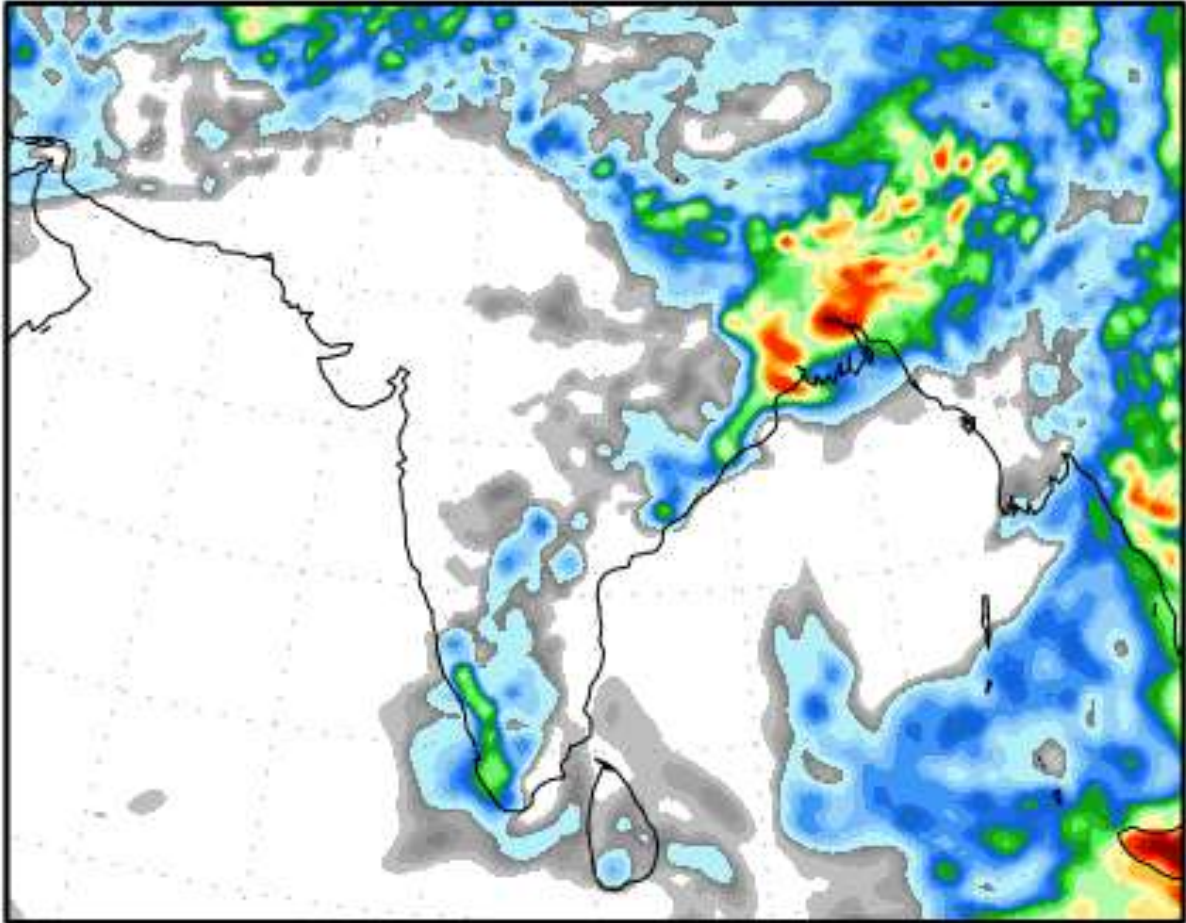


Figure: 2. Precipitation forecast for 27 March to 03 April 2019 (Source: NOAA NCEP).