

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 23 March 2019

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Scattered to fairly widespread rain/thundershowers are very likely over northeast India with isolated thunder squalls and lightning over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Arunachal Pradesh during next 24 hours and thereafter once again on 26th & 27th March.
- A Western Disturbance and associated induced cyclonic circulation could cause isolated to scattered rain / snow over western Himalayan region during next 3 days and isolated rain / thundershowers over Punjab, Haryana, Chandigarh & Delhi, north Rajasthan and Uttar Pradesh mainly on 24th & 25th March. The rain belt is likely to shift eastwards with likelihood of isolated thundersqualls over west Bengal & Sikkim on 26th March.
- The day temperatures are likely to rise gradually by 2-3°C over major parts of India during next 2-3 days, when most parts of Kerala and isolated pockets of interior Karnataka, interior Tamilnadu & Rayalaseema might experience markedly above normal temperatures on 25th & 26th March.
- 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 Nagaland, Manipur, Mizoram & Tripura; at a few places over Assam & Meghalaya, Gangetic West Bengal ; at isolated places over Kerala, Chhattisgarh, Odisha, Sub-Himalayan West Bengal & Sikkim and Jharkhand. Thundersquall occurred at isolated places over Gangetic West Bengal and Tripura, yesterday.
- Maximum temperature departures as on 22.03.2019: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Jammu & Kashmir, Lakshadweep and Andaman & Nicobar Islands; at isolated places over South Interior Karnataka and Tamilnadu & Puducherry; above normal (1.6°C to 3.0°C) at a few places over Himachal Pradesh, Saurashtra & Kutch, and Rayalaseema and

Kerala; at isolated places over Sub-Himalayan West Bengal & Sikkim, Odisha, Gujarat region, Marathwada and Coastal & North Interior Karnataka. They were markedly below normal (-5.1°C or more) at a few places over Assam & Meghalaya; at isolated places over Gangetic West Bengal; appreciably below normal (-3.1°C to -5.0°C) at isolated places over Haryana, Chandigarh & Delhi; below normal (-1.6°C to -3.0°C) at isolated places over East Rajasthan, Nagaland, Manipur, Mizoram & Tripura and Madhya Pradesh; at isolated places over Uttar Pradesh, Chhattisgarh, Konkan & Goa, Madhya Maharashtra and Coastal Andhra Pradesh and near normal over rest parts of the country.

- Yesterday, the highest maximum temperature of 41.4°C was recorded at Anantapur (Rayalaseema) over the country.
- Minimum temperature departures as on 23.03.2019: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at isolated places over West Rajasthan and Tamilnadu & Puducherry; above normal (1.6°C to 3.0°C) at a few places over Jammu & Kashmir, Saurashtra & Kutch, Vidarbha, Telangana and Andaman & Nicobar Islands; at isolated places over Himachal Pradesh, East Rajasthan, Gujarat region, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Jharkhand, Rayalaseema and South Interior Karnataka. They are appreciably below normal (-3.1°C to -5.0°C) at a few places over Madhya Pradesh; at isolated places over Haryana, Chandigarh & Delhi, Uttar Pradesh; below normal (-1.6°C to -3.0°C) at a few places over Gangetic West Bengal, Konkan & Goa and Madhya Maharashtra; at isolated places over Odisha, Chhattisgarh, Marathwada and Coastal Karnataka and near normal over rest parts of the country.
- The lowest minimum temperature of 10.0°C recorded at Karnal (Haryana) over plains of the country.

Weather Warning during next 5 days (IMD)

- 23 March (Day 1): Thundersquall accompanied with lightning at isolated places very likely over Assam & Meghalaya and Arunachal Pradesh. Thunderstorm accompanied with gusty winds & lightning at isolated places very likely over Nagaland, Manipur, Mizoram & Tripura.
- 24 March (Day 2): Thunderstorm accompanied with gusty winds & lightning at isolated places very likely over Himachal Pradesh and Uttarakhand.
- 25 March (Day 3): Thunderstorm accompanied with gusty winds & lightning at isolated places very likely over Uttarakhand.
- 26 March (Day 4): Thundersquall accompanied with lightning at isolated places likely over West Bengal & Sikkim , Assam & Meghalaya and Nagaland, Manipur,

Mizoram & Tripura. Thunderstorm accompanied with gusty winds & lightning at isolated places likely over Arunachal Pradesh, Kerala, North Coastal Andhra Pradesh, Bihar, Jharkhand and Odisha.

- 27 March (Day 5): Thundersquall accompanied with lightning at isolated places likely over Nagaland, Manipur, Mizoram & Tripura, Assam & Meghalaya and Arunachal Pradesh.
- The weather outlook for the period of seven days *i.e* 23 to 30 March 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, Sub-Himalayan West Bengal & Sikkim, Jharkhand, Chhattisgarh, Odisha, Kerala and North Eastern States. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Bihar

Weather condition:

Dry weather prevailed in Bihar state during past few days. Maximum temperature ranged from 26.4 to 33.0 °C and minimum temperature ranged from 12.0 to 17.4 °C.

Contingency measure:

- Green gram/Black gram Sowing of green gram: (mung bean) & black gram (urd) is advised. Application of 20 kg nitrogen, 45 kg phosphorus, 20kg potash and 20 kg sulphur/ha is advised during land preparation. Pusa Vishal, Samrat, SML-668, HUM-16 and Sona varieties for mung bean and Pant Urd-19 and Pant Urd-31, Uttra and Navinvarieties of urd are recommended for sowing in North Bihar.
- Fodder crop: Sowing of sweet jowar (multi-cut) and Kohwa varieties of jowar is advised. Cowpea is intercropping with jowar is suggested. African tall variety of maize is also advised for sowing as fodder crop. Give irrigation on standing fodder crops for healthy growth.
- Vegetables: Complete the sowing of summer vegetables. Monitoring of red pumpkin beetle is advised in cucurbitaceous vegetables, which are in seedling stage. This is a very harmful insect pest. The grubs damage the plants by boring into the roots and underground stems. The adult beetles injure the flower, foliage by biting holes in to them. Severe infestation result in the death of the plant or retardation of growth. Dusting of Chlorpyrifos 2% dust @20 kg/hectare near root of the plant is advised for control of grubs infestation.
- Mango Do not spray any pesticide during the period from flowering till the time mango fruit becomes pea sized. Remove the affected inflorescence from the orchard. Apply Bordeaux paste (1kg lime + 1 kg copper sulfate+ 10 liters water) in the mango stem.
- Onion: In view of dry weather, give irrigation at a regular interval of 10-12 days. Weeding is also advised. Dry and hot weather is favorable for outbreak of onion thrips. Regular monitoring is advised for thrips infestation in onion. If the insect population is above ETL, spraying of Profenofos@1ml/L or Imidacloprid @1ml/4 liter of water is advised. Add sticker@ 1ml/L of water for better result.
- Livestock: Provide clean water to the milch animals and keep them in the shaded place in day hours in view of increasing temperature during the forecast period.

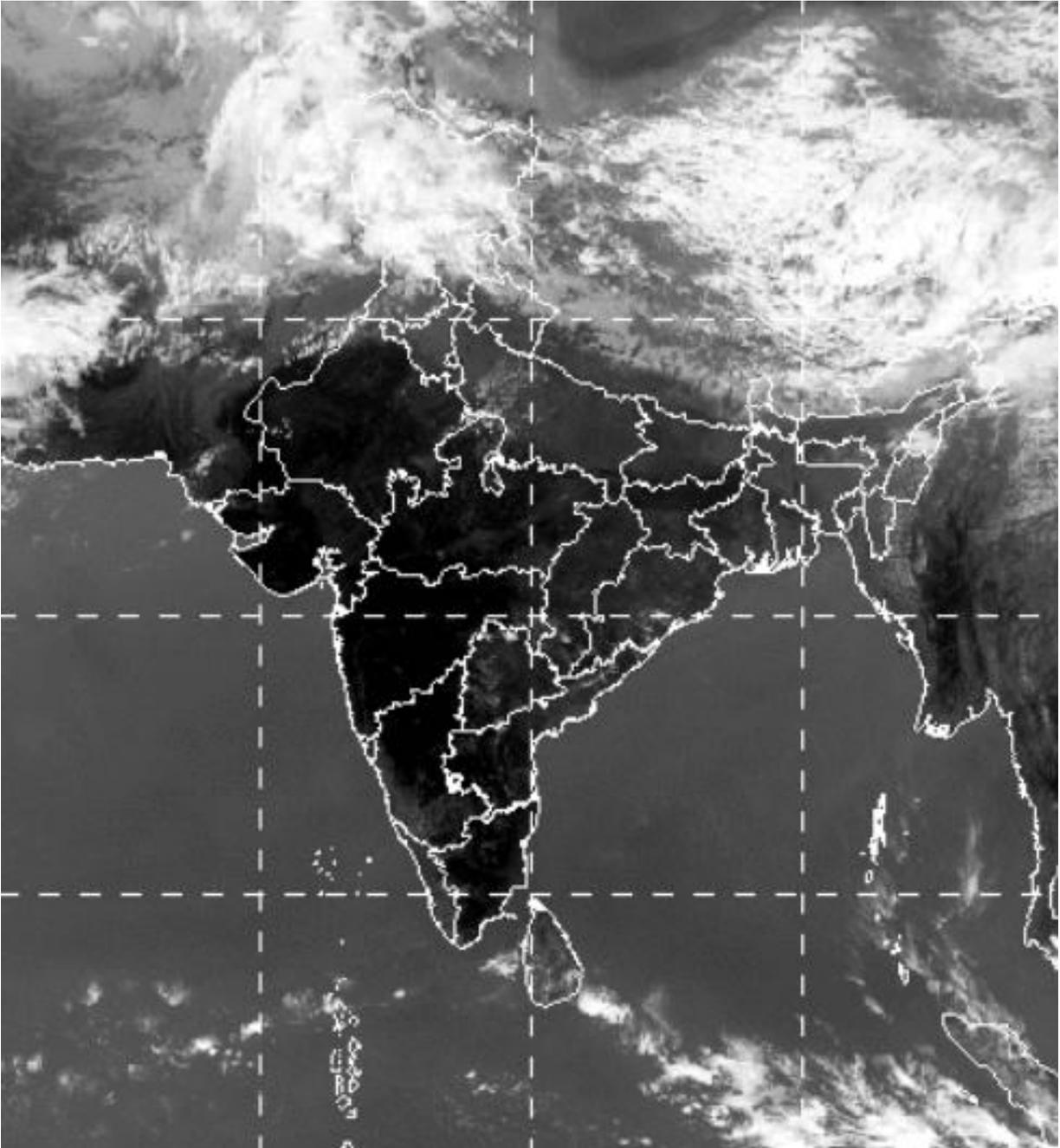


Figure: 1. Latest available satellite picture as on 23 March 2019 at 0230 Hrs (IST).

(Source: IMD).

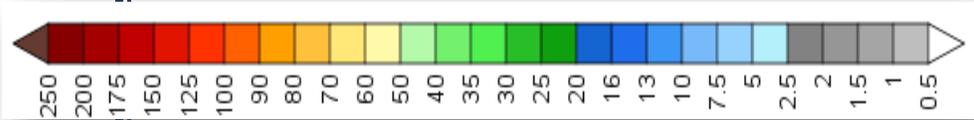
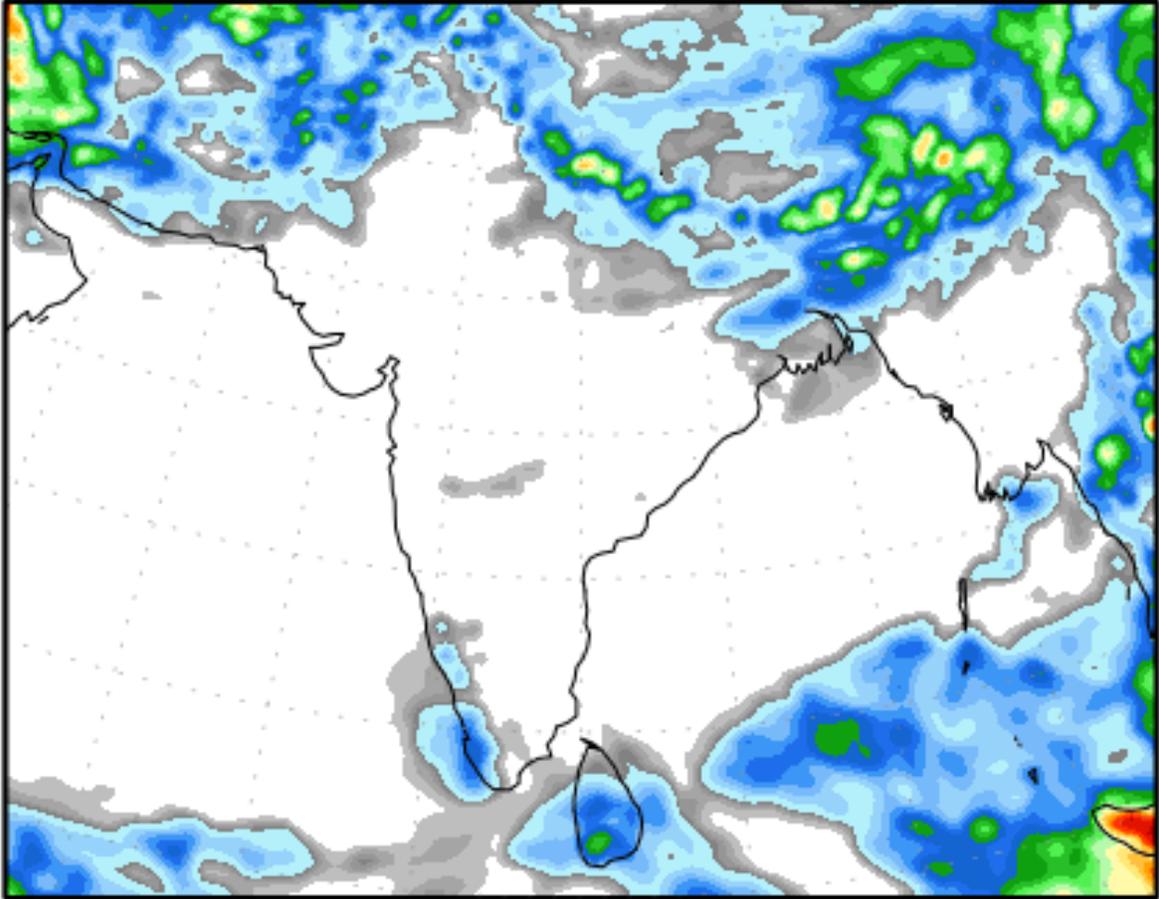


Figure: 2. Precipitation forecast for 23 to 30 March 2019 (Source: NOAA NCEP).