

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 20 February 2019

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A combination of two western disturbances and its induced cyclonic circulation is providing conducive features for high moisture incursion from Arabian Sea towards northwest India specially over Western Himalayan Region during next 48 hours. Strong wind convergence at mid & upper tropospheric levels over Western Himalayan Region and wind confluence at lower levels over plains of northwest India is also very likely to take place during the same period. Widespread rain/snow would occur over Jammu & Kashmir, Himachal Pradesh and Uttarakhand during next 2 days. Fairly widespread to widespread rain/thundershowers would occur over Punjab, Haryana, Chandigarh & Delhi, north Rajasthan and West Uttar Pradesh during next two days.
- Isolated heavy rain/snow is likely over Jammu & Kashmir and Himachal Pradesh on 20th & 21st February. Isolated heavy rain/thundershowers is likely over Punjab today.
- Thunderstorm with hailstorm, lightning & gusty winds at isolated places would occur over Jammu division, lower reaches of Himachal Pradesh and Uttarakhand and Haryana, Chandigarh & Delhi, Uttar Pradesh and Punjab on 20th & 21st February and over Rajasthan on 20th February, 2019.
- Strong winds, speed reaching 30-40 kmph gusting to 50 kmph very likely over major parts of Northwest India on 20th and 21st February.
- An increase in rainfall activity is likely over east & northeast India from 24th February.
- The images showing the latest satellite picture in figure. 1.

Main Weather Observations (IMD)

- Rain/snow/thundershowers (from 0830 hours IST of yesterday to 0830 hrs IST of today): Rain/snow/thundershowers occurred at many places over Jammu & Kashmir; at a few places Uttarakhand and at isolated places over Himachal Pradesh,

Arunachal Pradesh; at a few places over Haryana, Chandigarh & Delhi, Punjab and Assam & Meghalaya and at isolated places over West Uttar Pradesh, Rajasthan, Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Coastal Andhra Pradesh, Rayalaseema Tamilnadu and Kerala.

- Very Dense fog observed at isolated places over Saurashtra & Kutch and moderate fog at isolated places over Sikkim, Assam & Meghalaya, East Uttar Pradesh and Delhi at 0830 hours IST of today. Visibility: Naliya-25 M, Tadong-200 M, Fursatganj, Halflong and Delhi (SFD)-500 M each.
- Maximum temperature departures as on 19.02.2019: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at most places over Marathawada, Vidarbha and Rayalaseema; at many places over Jharkhand, Madhya Maharashtra and North Interior Karnataka; at a few places over East Rajasthan, West Madhya Pradesh and Tamilnadu & Puducherry; at isolated places over East Madhya Pradesh, Saurashtra & Kutch and Gangetic West Bengal; above normal (1.6°C to 3.0°C) at most places over South Interior Karnataka and Kerala; at many places over East Uttar Pradesh, Chhattisgarh, Telangana, Odisha and Nagaland, Manipur, Mizoram & Tripura; at a few places over Bihar, Coastal Andhra Pradesh and Andaman & Nicobar Islands; at isolated places over West Uttar Pradesh, West Rajasthan and Gujarat Region. They were appreciably below normal (-3.1°C to -5.0°C) at most places over Arunachal Pradesh and Assam & Meghalaya; at many places over Sub-Himalayan West Bengal & Sikkim; at a few places over Himachal Pradesh; Uttarakhand and near normal over rest parts of the country.
- Yesterday, the highest maximum temperature of 37.9°C was recorded at Sholapur (Madhya Maharashtra) over the country.
- Minimum temperature departures as on 20.02.2019: Minimum temperatures are markedly above normal (5.1°C or more) at most places over East Rajasthan; at many places over West Rajasthan, Haryana, Chandigarh & Delhi and Marathawada; at a few places over Telangana; appreciably above normal (3.1°C to 5.0°C) at most places over Punjab; at many places over West Uttar Pradesh; at a few places over East Uttar Pradesh, Gangetic West Bengal and North Interior Karnataka; at isolated places over Madhya Pradesh and Gujarat State; above normal (1.6°C to 3.0°C) at most places over Madhya Maharashtra, Rayalaseema, Tamilnadu, Andaman & Nicobar Islands; at many places over Jammu & Kashmir, Uttarakhand, Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura and Coastal Andhra Pradesh; at a few places over Assam & Meghalaya, Jharkhand, Vidarbha and Kerala and at isolated places over Odisha. They are below normal (-1.6°C to -3.0°C) at many places over Lakshadweep and near normal over rest parts of the country.
- Today's lowest minimum temperature of 8.6°C recorded at Mandla (East Madhya Pradesh) over the plains of the country.

Weather Warning during next 5 days (IMD)

- 20 February (Day 1): Heavy rain/snow at isolated places very likely over Jammu & Kashmir and Himachal Pradesh and Heavy rain at isolated places very likely over Punjab. Thunderstorm accompanied with hailstorm, lightning & gusty winds at isolated places very likely over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh and Rajasthan. Thunderstorm accompanied with lightning & gusty winds at isolated places very likely over West Madhya Pradesh and Vidarbha. Dense fog at isolated places very likely over Tripura.
- 21 February (Day 2): Heavy rain/snow at isolated places very likely over Jammu & Kashmir and Himachal Pradesh. Thunderstorm accompanied with hailstorm, lightning & gusty winds at isolated places very likely over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi and Uttar Pradesh. Thunderstorm accompanied with lightning & gusty winds at isolated places very likely over East Madhya Pradesh and Chhattisgarh.
- 22 February (Day 3): No weather warnings.
- 23 February (Day 4): Dense fog at isolated places likely over Punjab, Haryana, Chandigarh & Delhi and northwest Uttar Pradesh.
- 24 February (Day 5): Thunderstorm accompanied with lightning & gusty winds at isolated places likely over Odisha, West Bengal, Jharkhand, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Dense fog at isolated places likely over Punjab, Haryana, Chandigarh & Delhi and northwest Uttar Pradesh.
- The weather outlook for the period of seven days *i.e* 20 to 27 February 2019 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thundershower may occur over Jammu & Kashmir, Uttarakhand, Himachal Pradesh, Haryana, Chandigarh & Delhi, Punjab, West Uttar Pradesh, Rajasthan, Sub-Himalayan West Bengal & Sikkim, Madhya Pradesh, Coastal Andhra Pradesh, Rayalaseema Tamilnadu, Kerala and North Eastern States. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

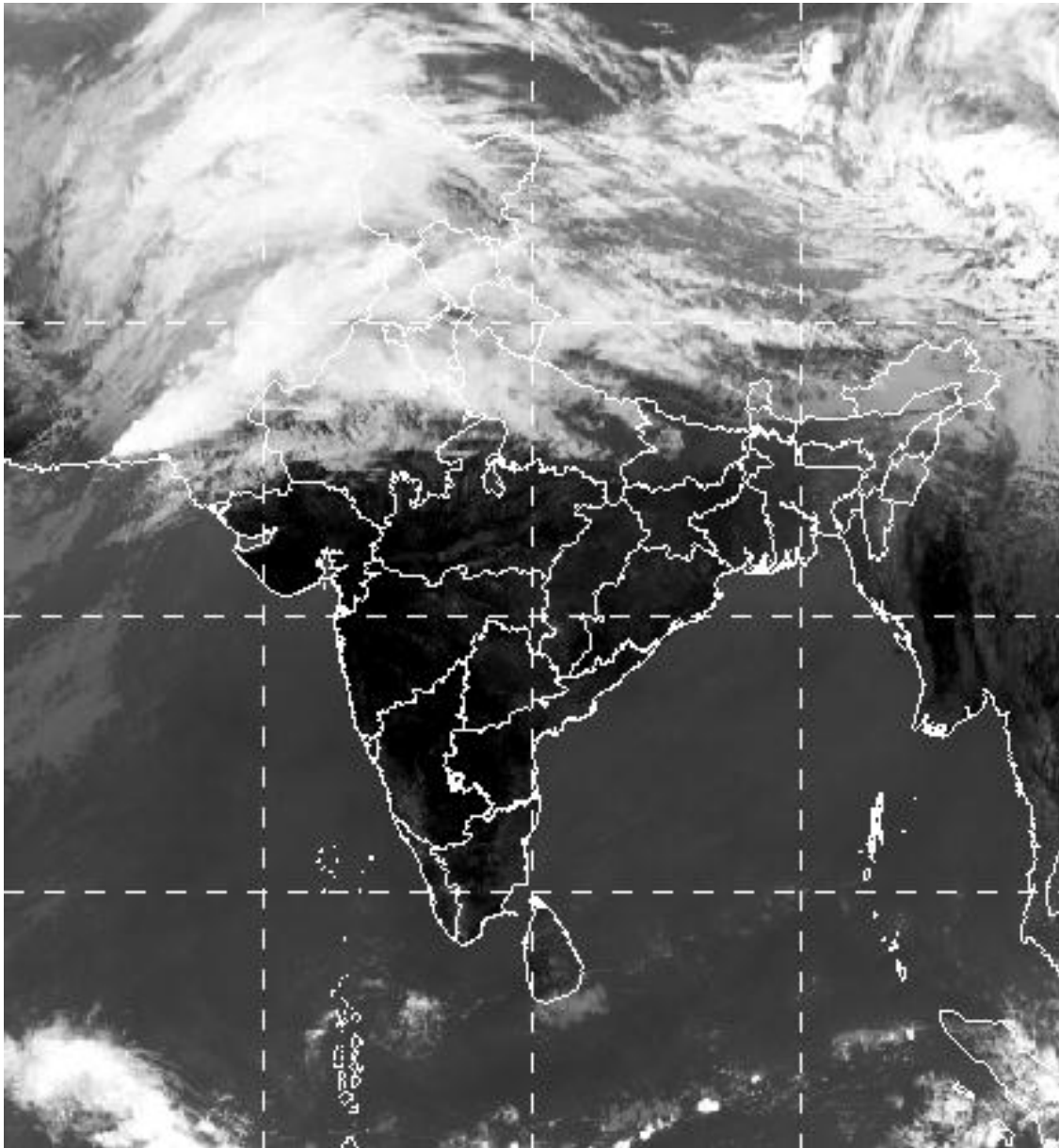
Andhra Pradesh

Weather condition:

Dry weather prevailed in Andhra Pradesh state during past few days.

Contingency measure:

- Farmers are advised to spray zinc sulphate @2g/l for control of Zinc deficiency and ferrous sulphate @5g/l and citric acid @1g/l for control of iron deficiency twice at 15 days interval and in mango If flowering delayed farmers are advised to spray KNO₃ or Multi K @10g + urea @5g per liter water. As the prevailing weather conditions are favorable for incidence of powdery mildew,
- Farmers are advised to spray water soluble Sulphur @3g/lit or Hexaconazole @2ml/l of water. Prevailing conditions are favourable for incidence of hoppers in mango.
- Farmers are advised to go for spraying of Thiomethoxam 0.4 g and Hexaconazol 2ml/l (or) Dainocap or\ Tridemorph 0.5 g/l. Spraying of Planofix @3ml / 15 lit of water will avoid flower drop and help in fruit formation. In banana Sibatoka disease incidence was noticed in few parts of the district. For the control spraying of Hexaconazole 2ml/lit along with sticking agent is recommended.
- Farmers are advised to give the light irrigation followed by spraying of 13-0-45 @10g/lit or SOP @ 5gm/lit for improvement of fruit (finger) size.



**Figure: 1. Latest available satellite picture as on 20 February 2019 at 0230 Hrs (IST).
(Source: IMD).**

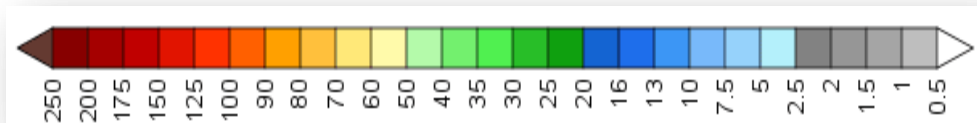
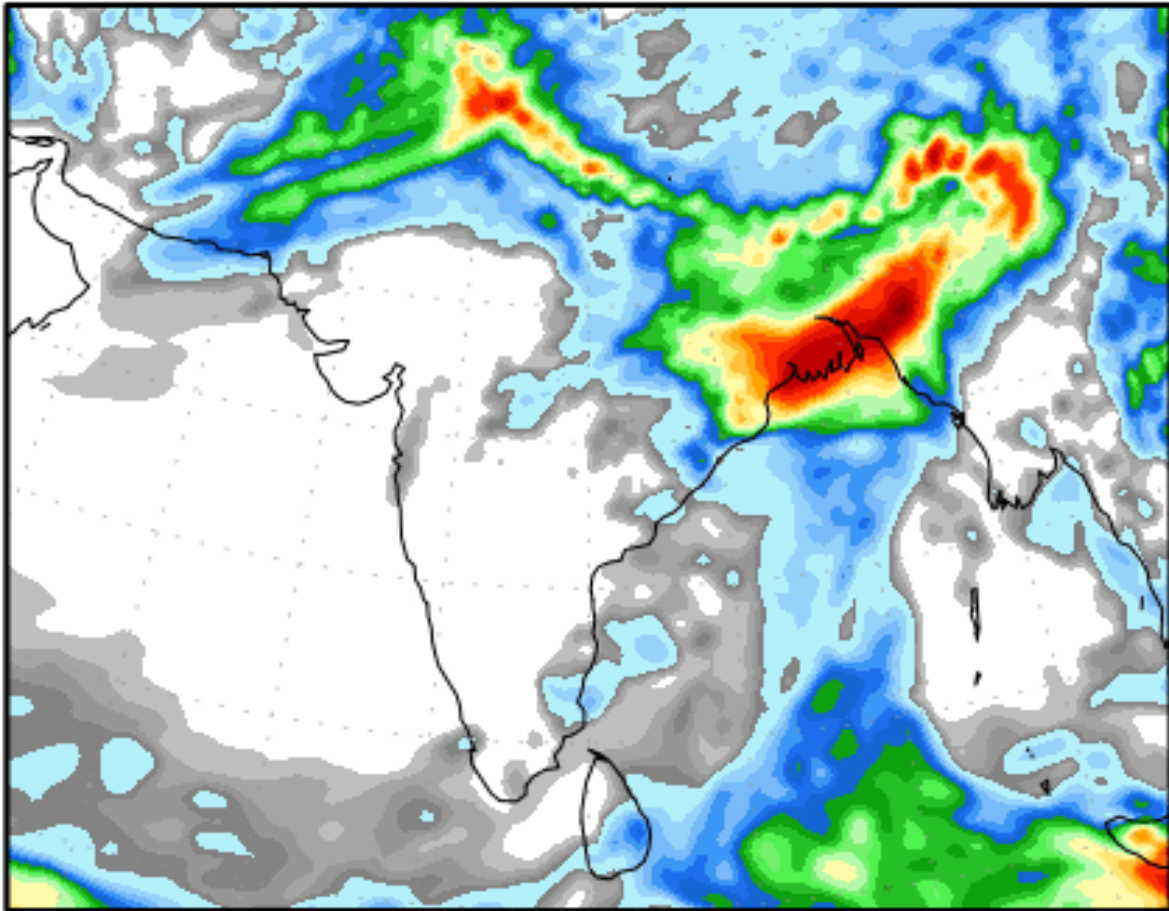


Figure: 2. Precipitation forecast for 20 to 27 February 2019 (Source: NOAA NCEP).