

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 13 May 2019

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- India for next 1-2 days. This is likely to be accompanied by hailstorm over the hills of north India and dust storms over the plains of north India.
- Fresh Western Disturbance is likely to affect Western Himalayan region from 15th night.
- Isolated heavy rainfall is likely over Arunachal Pradesh, Sub-Himalayan West Bengal and Assam & Meghalaya during next 2-3 days.
- Heat wave conditions likely in isolated pockets over Vidarbha, Chhattisgarh, Telangana and Tamilnadu & Puducherry during next 4 -5 days.
- Dust raising winds are likely over plains of north India during next 48 hours.
- The images showing the latest satellite picture in figure. 1.

Main Weather Observations (IMD)

- Rain/Thundershowers observed (from 0830 hours to 0830 hours IST of today):at most places over Sub-Himalayan West Bengal & Sikkim and Arunachal Pradesh; at many places over Assam & Meghalaya; at a few places over Himachal Pradesh, East Uttar Pradesh, Andaman & Nicobar Islands and Kerala; at isolated places over Rajasthan, Madhya Pradesh, Uttrakhand, Jharkhand, Odisha, Telangana, Nagaland, Manipur, Mizoram & Tripura, Tamilnadu & Puducherry and South Interior Karnataka. Thunderstorm observed (from 0830 hours of yesterday to 0830 hours IST of today) at a few places over Himachal Pradesh and Uttarakhand and at isolated places over Jammu & Kashmir, East Uttar Pradesh, Rajasthan, Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Chhattisgarh, Odisha and South Interior Karnataka.
- Yesterday, hailstorm was observed at isolated places over East Madhya Pradesh.
- Yesterday, Heat Wave Conditions were observed at a few places over Bihar and in isolated pockets over Vidarbha, Bihar and Gangetic West Bengal.

- Maximum temperature departures as on 12.05.2019: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at most places over Bihar; at many places over Nagaland, Manipur, Mizoram & Tripura; at isolated places over East Uttar Pradesh, Odisha and Tamilnadu & Puducherry; above normal (1.6°C to 3.0°C) at most places over South Interior Karnataka; at many places over Kerala, Madhya Maharashtra, Vidarbha, Rayalaseema and Jharkhand; at a few places over Coastal Karnataka, Marathwada, West Bengal & Sikkim, Assam & Meghalaya and Andaman & Nicobar Islands and at isolated places over Telangana, East Madhya Pradesh, Jammu & Kashmir and Lakshadweep. They were appreciably below normal (-3.1°C to -5.0°C) at isolated places over West Rajasthan; below normal (-1.6°C to -3.0°C) at a few places over Himachal Pradesh; at isolated places over East Rajasthan, Gujarat region and West Madhya Pradesh and near normal over rest of the country.
- Yesterday, the highest maximum temperature of 45.6°C was recorded at Bramhapuri (Vidarbha).
- Minimum temperature departures as on 13-05-2019: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at isolated places over east Madhya Pradesh, Vidharbha and Rayalaseema; above normal (1.6°C to 3.0°C) at many places over Marathawada, Tamilnadu & Puducherry and Gangetic West Bengal; at few places over Bihar, Jharkhand, Coastal Andhra Pradesh and Kerala and at isolated places over Jammu & Kashmir, Rajasthan, Uttar Pradesh and Odisha; They are markedly below normal(-5.1°C and more) at isolated places over West Rajasthan; appreciably below normal (-3.1°C to -5.0°C) at many places over Himachal Pradesh; below normal (-1.6°C to -3.0°C) at many places over Assam & Meghalaya and Madhya Pradesh and at isolated places over Madhya Maharashtra and near normal over rest parts of the country.

Weather Warning during next 5 days (IMD)

- 13 May (Day 1): Thunderstorm & lightning accompanied with squall (50-60 kmph) very likely at isolated places over Uttarakhand and Assam & Meghalaya; with hail & gusty winds (40-50 kmph) at isolated places likely over Himachal Pradesh; with gusty winds (40-50 kmph) at isolated places over South Interior Karnataka and Tamilnadu & Puducherry and with gusty winds (30-40 kmph) at isolated places over Jammu & Kashmir, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Arunachal Pradesh, Odisha, Bihar, Jharkhand, Coastal Andhra Pradesh, Telangana, Rayalaseema and Kerala. Thunderstorm/Duststorm & lightning accompanied with gusty winds (30-40 kmph) likely at isolated places over Rajasthan. Heavy rainfall at isolated places likely over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya and Tamilnadu & Puducherry. Heat Wave Conditions at isolated places very likely over Bihar, Chhattisgarh and Vidarbha.

- 14 May (Day 2): Thunderstorm & lightning accompanied with squall (50-60 kmph) at isolated places likely over Gangetic West Bengal; with gusty winds (40-50 kmph) at isolated places over Tamilnadu & Puducherry; with gusty winds (30-40 kmph) at isolated places over Uttarakhand, Punjab, Bihar, Jharkhand, Chhattisgarh, Sub-Himalayan West Bengal, Odisha, Assam & Meghalaya, Coastal Andhra Pradesh, South Interior Karnataka and Kerala. Thunderstorm/Duststorm & lightning accompanied with gusty winds (30-40 kmph) likely at isolated places over Rajasthan. Heavy rainfall at isolated places likely over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and Assam & Meghalaya. Heat Wave Conditions at isolated places very likely over Telangana, Vidarbha, Chhattisgarh and Tamilnadu & Puducherry.
- 15 May (Day 3): Thunderstorm & lightning accompanied with gusty winds (40-50 kmph) at isolated places over Coastal Andhra Pradesh; with gusty winds (30-40 kmph) at isolated places over, Bihar, Gangetic West Bengal & Sikkim, Assam & Meghalaya and Kerala. Thunderstorm/Duststorm & lightning accompanied with gusty winds (30-40 kmph) likely at isolated places over Rajasthan. Thunderstorm and lightening likely at isolated places over Odisha. Heavy rainfall at isolated places likely over Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh and Assam & Meghalaya. Heat Wave Conditions at isolated places very likely over Vidarbha, Chhattisgarh, Telangana and Tamilnadu & Puducherry.
- 16 May (Day 4): Thunderstorm & lightning accompanied with gusty winds (30-40 kmph) at isolated places over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh and Sub-Himalayan West Bengal & Sikkim. Thunderstorm/Duststorm & lightning accompanied with gusty winds (30-40 kmph) likely at isolated places over West Rajasthan. Thunderstorm and lightening likely at isolated places over Odisha. Heat Wave Conditions at isolated places very likely over Vidarbha, Chhattisgarh, Telangana and Tamilnadu & Puducherry.
- 17 May (Day 5): Thunderstorm & lightning accompanied with gusty winds (30-40 kmph) at isolated places over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi and Sub-Himalayan West Bengal & Sikkim. Thunderstorm/Duststorm & lightning accompanied with gusty winds (30-40 kmph) likely at isolated places over West Rajasthan. Heat Wave Conditions at isolated places very likely over Vidarbha, Chhattisgarh, Telangana and Tamilnadu & Puducherry.

The weather outlook for the period of seven days *i.e* 13 to 20 May 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, Rajasthan, East Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Madhya Pradesh, Jharkhand, Chhattisgarh Odisha, Telangana,

South Interior Karnataka, Tamilnadu & Puducherry, Kerala, Andaman & Nicobar Islands and North Eastern States. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

West Bengal

Weather condition:

Light rainfall received in West Bengal state during past few days. Maximum temperature ranged between 26.0 to 36.0 °C and minimum temperature ranged between 22.4 to 28.0 °C.

Contingency measure:

Boro-rice: If more than 80% grains ripened harvest the crop. After harvesting, dry the crop properly.

Jute : Irrigate the field as no rainfall is expected in next five days. At 15 to 20 DAS, carry out proper intercultural operation. Apply first dose of top-dressing at the rate of 9 Kg per Bigha for Capsularis and at the rate of 6 Kg per Bigha for Olitorious.

Okra: In the prevailing weather condition, attack of white fly may be observed. To control it, apply Imidachloprid @ 5 ml per 10 lit. water at an interval of 15 days. Apart from this, attack of shoot and fruit borer is also reported from some areas. Spray 2 gm Carbaryl (Sevin) or 2 ml Malathion per lit. water.

Mango: As the temperature is likely to be increased, so there is a chance of attack of Mites. To control the pest apply 1-2 gm Sulphur pesticide per lit. of water. Apply irrigation as per requirement.

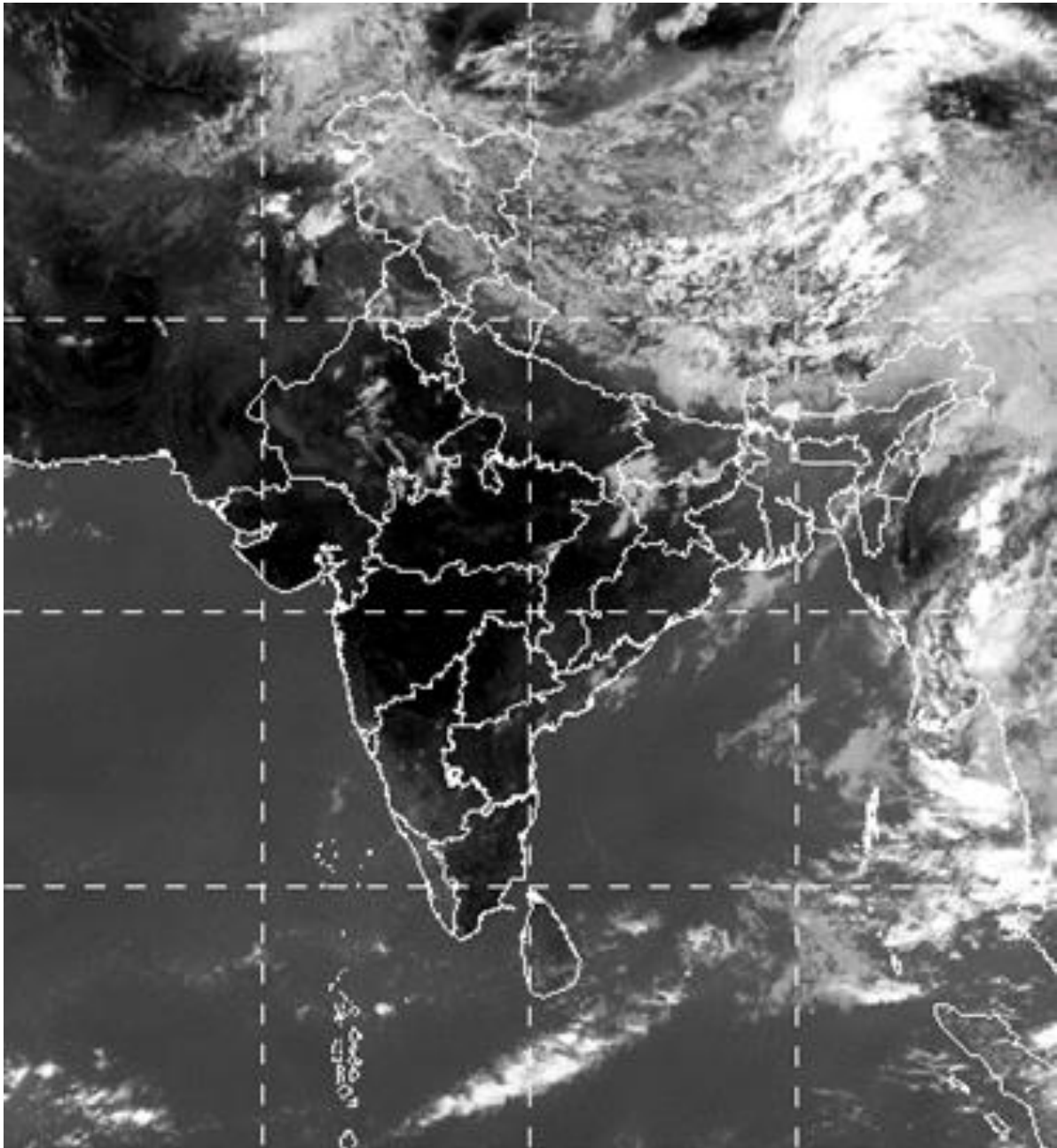


Figure: 1. Latest available satellite picture as on 13 May 2019 at 0230 Hrs (IST).

(Source: IMD).

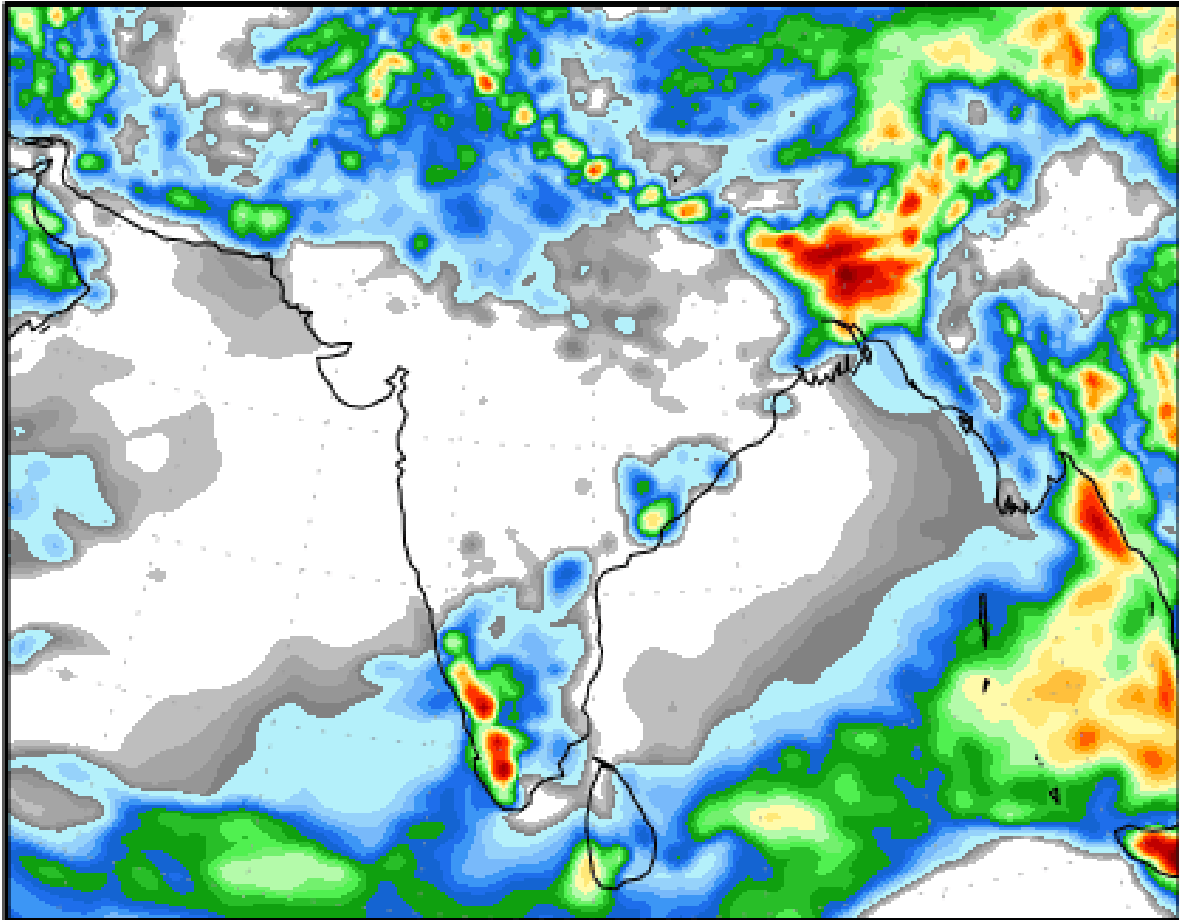


Figure: 2. Precipitation forecast for 13 to 20 May 2019 (Source: NOAA NCEP).