

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 23 May 2019

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Northern Limit of Monsoon (NLM) continues to pass through Lat. 5°N/Long. 81°E, Lat. 7°N/Long. 88°E, Car-Nicobar and Lat.13°N/Long. 99°E. Conditions are favourable for further advance of Southwest Monsoon into some more parts of South Bay of Bengal, North Andaman Sea & Andaman Islands during next 48 hours.
- Fairly widespread to widespread rainfall with isolated heavy/very heavy falls are likely over Assam, Meghalaya, Tripura, Sub-Himalayan West Bengal and Arunachal Pradesh during next 48 hours. Under the influence of a Western Disturbance lying over Afghanistan and neighbourhood, fairly widespread to widespread precipitation likely over Western Himalayan region and isolated to scattered rain/thundershowers over adjoining plains during next 48 hours. Thunderstorm accompanied with gusty winds over Western Himalayan region and Duststorm/Thunderstorm accompanied with gusty winds over adjoining plains are also likely during the same period.
- Heat wave conditions likely in isolated to some pockets over Madhya Maharashtra, Madhya Pradesh, East Uttar Pradesh, Bihar and Tamilnadu during next 48 hours and in isolated pockets over Vidarbha (severe heat wave for next 24 hours), Telangana, Rayalaseema, Chhattisgarh, Jharkhand and Odisha during next 3-4 days.
- The images showing the latest satellite picture in figure. 1.

Main Weather Observations (IMD)

- Rain/Thundershowers observed (from 0830 hours IST yesterday to 0830 hours IST of today): at most places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; at many places over Bihar; at few places over Odisha and Andaman & Nicobar Islands and at isolated places over Jammu & Kashmir, Himachal Pradesh, East Rajasthan, Chhattisgarh, Marathawada and Gangetic West Bengal. Heavy Rainfall recorded at isolated places over Assam & Meghalaya. Thunderstorms observed at a few places over Bihar and Sub-Himalayan West Bengal & Sikkim and at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Jharkhand, Gangetic

West Bengal, Chhattisgarh, Odisha, South Interior Karnataka, Madhya Maharashtra, Telangana, East Rajasthan and East Madhya Pradesh.

- Yesterday, Heat Wave Conditions were observed in some part of Vidarbha and in isolated pockets over East Uttar Pradesh, East Madhya Pradesh, Marathwada and Madhya Maharashtra
- Maximum temperature departures as on 22.05.2019: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at most places over Madhya Maharashtra, Vidarbha, Kerala and Jharkhand; at a few places over Himachal Pradesh and Uttarakhand; above normal (1.6°C to 3.0°C) at most places over Madhya Pradesh, Marathawada and Rayalaseema; at many places over Punjab, Tamilnadu & Puducherry, Coastal & Interior Karnataka, Telangana, Chhattisgarh, Bihar and Nagaland, Manipur, Mizoram & Tripura; at a few places over East Uttar Pradesh, Lakshadweep, Gangetic West Bengal and Odisha and at isolated places over Andaman & Nicobar Islands, Gujarat, Sub- Himalayan west Bengal & Sikkim and West Uttar Pradesh. They were below normal (-1.6°C to -3.0°C) at many places over Assam & Meghalaya and Arunachal Pradesh; at a few places over Coastal Andhra Pradesh and near normal over rest of the country.
- Yesterday, the highest maximum temperature of 46.5°C was recorded at Bramhapuri (Vidarbha).
- Minimum temperature departures as on 23.05.2019: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at many places over Marathwada; at a few places over Vidarbha, Chhattisgarh, Jharkhand and Rayalaseema and at isolated places over South Interior Karnataka; above normal (1.6°C to 3.0°C) at most places over West Rajasthan, North Interior Karnataka and Kerala; at many places over Punjab, Gujarat Region, Madhya Maharashtra, Tamil Nadu & Puducherry, Andaman & Nicobar and Lakshadweep; at a few places over Jammu & Kashmir, Uttarakhand, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Saurashtra & Kutch, Telangana, Coastal Karnataka and Odisha and at isolated places over Himachal Pradesh. They are below normal (-1.6°C to -3.0°C) at many places over Assam & Meghalaya; at a few places over Sub-Himalayan West Bengal & Sikkim and Bihar and at isolated places over Gangetic West Bengal and near normal over rest parts of the country.

Weather Warning during next 5 days (IMD)

- 23 May (Day 1): Thunderstorm & lightning accompanied with gusty winds (40-50 kmph) at isolated places very likely over Jammu & Kashmir, Gangetic Bengal and South Interior Karnataka; with hailstorm and gusty winds (30-40 kmph) at isolated places over Himachal Pradesh; with gusty winds (30-40 kmph) at isolated places over Kerala, North Interior Karnataka, north coastal Andhra Pradesh, Rayalaseema,

Telangana, northwest Madhya Pradesh, East Madhya Pradesh, Chhattisgarh, Uttarakhand, Sub-Himalayan West Bengal & Sikkim, Odisha, Jharkhand, Bihar, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura and with duststorm and gusty winds (30-40 kmph) at isolated places over Punjab, Rajasthan, Uttar Pradesh and Haryana, Chandigarh & Delhi. Heavy to very heavy rain with extremely heavy falls in isolated places very likely over Assam & Meghalaya; heavy to very heavy rain at isolated places over Nagaland, Manipur, Mizoram & Tripura and heavy rain at isolated places over Arunachal Pradesh, South Interior Karnataka and Sub-Himalayan West Bengal & Sikkim. Heat Wave Conditions in many parts with severe heat wave in isolated pockets very likely over Vidarbha; heat wave conditions in some parts over northeast Madhya Pradesh and at isolated pockets over Telangana, Rayalaseema, Madhya Maharashtra, West Madhya Pradesh, Chhattisgarh, East Uttar Pradesh and Tamilnadu.

- 24 May (Day 2): Thunderstorm & lightning accompanied with gusty winds (40-50 kmph) at isolated places very likely over South Interior Karnataka; with hailstorm and gusty winds (30-40 kmph) at isolated places over Uttarakhand; with gusty winds (30-40 kmph) at isolated places over Kerala, north coastal Andhra Pradesh, Chhattisgarh, Jammu & Kashmir, Himachal Pradesh, Sub-Himalayan West Bengal & Sikkim, Odisha, Jharkhand and with dust storm and gusty winds (30-40 kmph) at isolated places over Punjab, West Uttar Pradesh and Haryana, Chandigarh & Delhi. Heavy to very heavy rain with extremely heavy falls in isolated places very likely over Assam & Meghalaya; heavy to very heavy rain at isolated places over Nagaland, Manipur, Mizoram & Tripura and heavy rain at isolated places over South Interior Karnataka. Heat Wave Conditions in many parts very likely over Vidarbha; in some parts over northeast Madhya Pradesh and at isolated pockets over Telangana, Rayalaseema, Jharkhand, Madhya Maharashtra, West Madhya Pradesh, Chhattisgarh, East Uttar Pradesh and Tamilnadu.
- 25 May (Day 3): Thunderstorm & lightning accompanied with gusty winds (40-50 kmph) at isolated places very likely over South Interior Karnataka and Tamilnadu; with gusty winds (30-40 kmph) at isolated places over Sub-Himalayan West Bengal & Sikkim and thunderstorm and lightning at isolated places over Odisha. Heavy rain at isolated places very likely over Assam & Meghalaya and South Interior Karnataka. Heat Wave Conditions in some parts very likely over Vidarbha and at isolated pockets over northeast Madhya Pradesh, Telangana, Jharkhand, Chhattisgarh and Odisha. Strong winds speed reaching 35-45 kmph are likely to prevail over northeast Arabian Sea along & off north Gujarat coast. Fishermen are advised not to venture into this area.
- 26 May (Day 4): Thunderstorm & lightning accompanied with gusty winds (40-50 kmph) at isolated places likely over Gangetic West Bengal and Tamilnadu; with gusty winds (30-40 kmph) at isolated places likely over Bihar and thunderstorm and

lightning at isolated places over Odisha. Heavy rain at isolated places likely over South Interior Karnataka and north interior Tamilnadu. Heat Wave Conditions in some parts very likely over Vidarbha and at isolated pockets over Telangana, Jharkhand, Chhattisgarh and Odisha. Strong winds speed reaching 35-45 kmph are likely to prevail over northeast Arabian Sea along & off north Gujarat coast. Fishermen are advised not to venture into this area.

- 27 May (Day 5): Thunderstorm & lightning accompanied with gusty winds (30-40 kmph) at isolated places likely over Gangetic West Bengal and Bihar and thunderstorm and lightning at isolated places over Odisha. Heat Wave Conditions in some parts likely over Vidarbha and at isolated pockets over Jharkhand, Chhattisgarh and Odisha.
- The weather outlook for the period of seven days *i.e* 23 to 30 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, Himachal Pradesh, East Rajasthan, Sub-Himalayan West Bengal & Sikkim, Gangetic West Bengal, Bihar, Jharkhand, East Madhya Pradesh, Chhattisgarh, Odisha, Marathawada, Madhya Maharashtra, Telangana, South Interior Karnataka, Andaman & Nicobar Islands and North Eastern States. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Haryana

Weather condition:

Dry weather prevailed in Haryana state during past few days.

Contingency measure:

- General Advisory: Possibility of variable weather till 22nd May. Partly cloudy condition with gusty winds may also occur at isolated places during the period. Possibility of thunderstorm/ dust storm with light rainfall at isolated places on 18 & 19th May and dry thereafter. Cotton: Keep weather in mind while sowing of cotton crop.
- Sugarcane: Due to chances of rainfall, farmers are advised to withhold irrigation in sugarcane crop till 19th May.

- Vegetables crops: Due to chances of rainfall, farmers are advised to withhold irrigation in vegetable crops till 19th May.
- Live stock: Possibilities dusty high winds and thunderstorm, farmers are advised to keep the animals under sheds/trees. Provide them clean water to drink to avoid heat stress. Provide 50 grams iodized salt and 50 to 100 grams mineral mixture daily to the cattle/animal with feed & green fodder to keep them healthy.

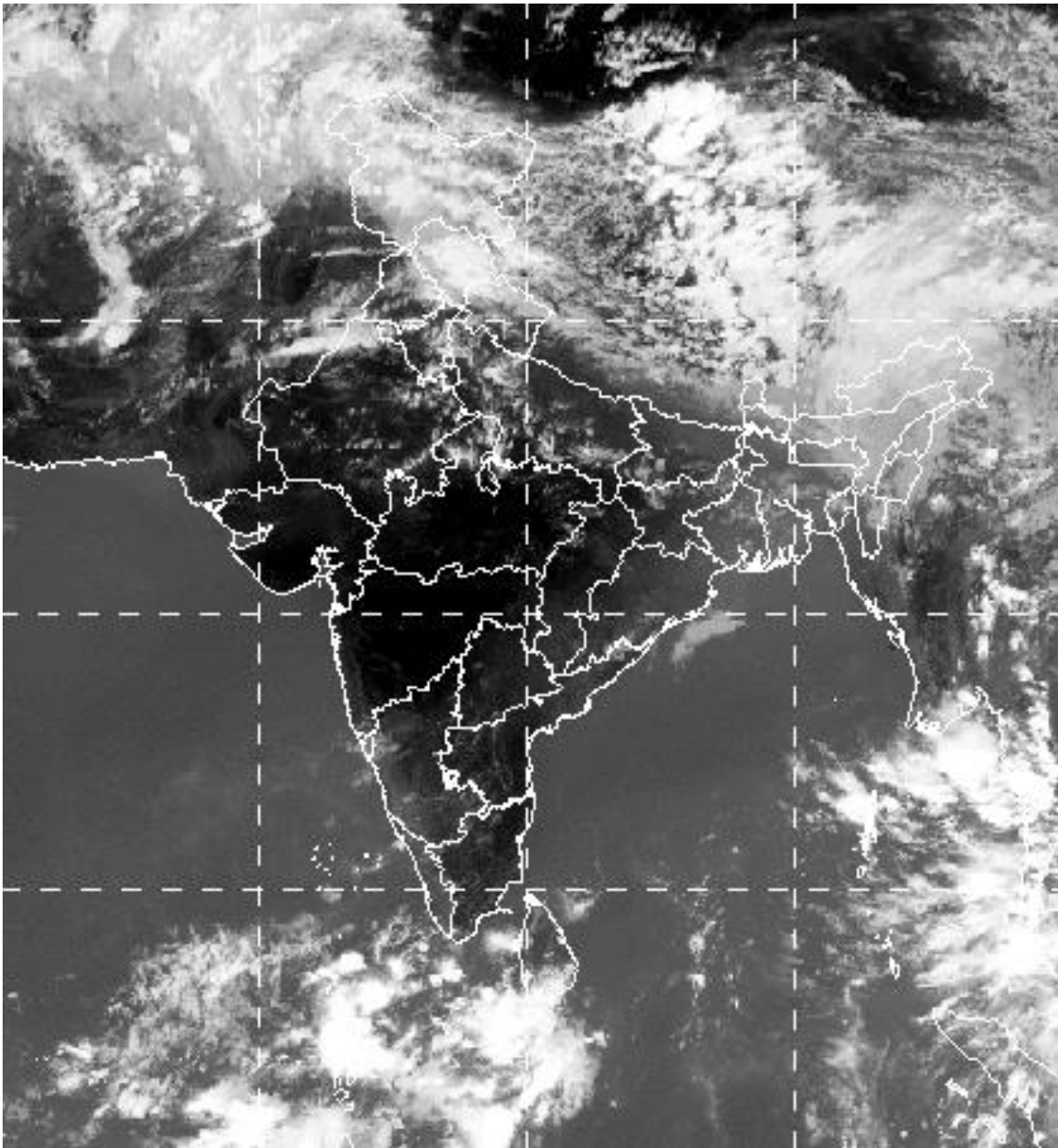


Figure: 1. Latest available satellite picture as on 23 May 2019 at 0230 Hrs (IST).

(Source: IMD).

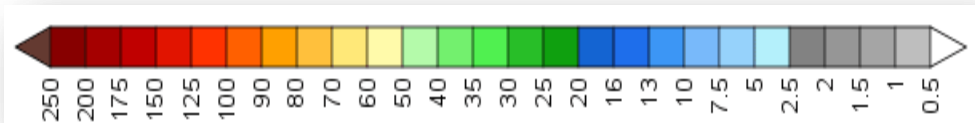
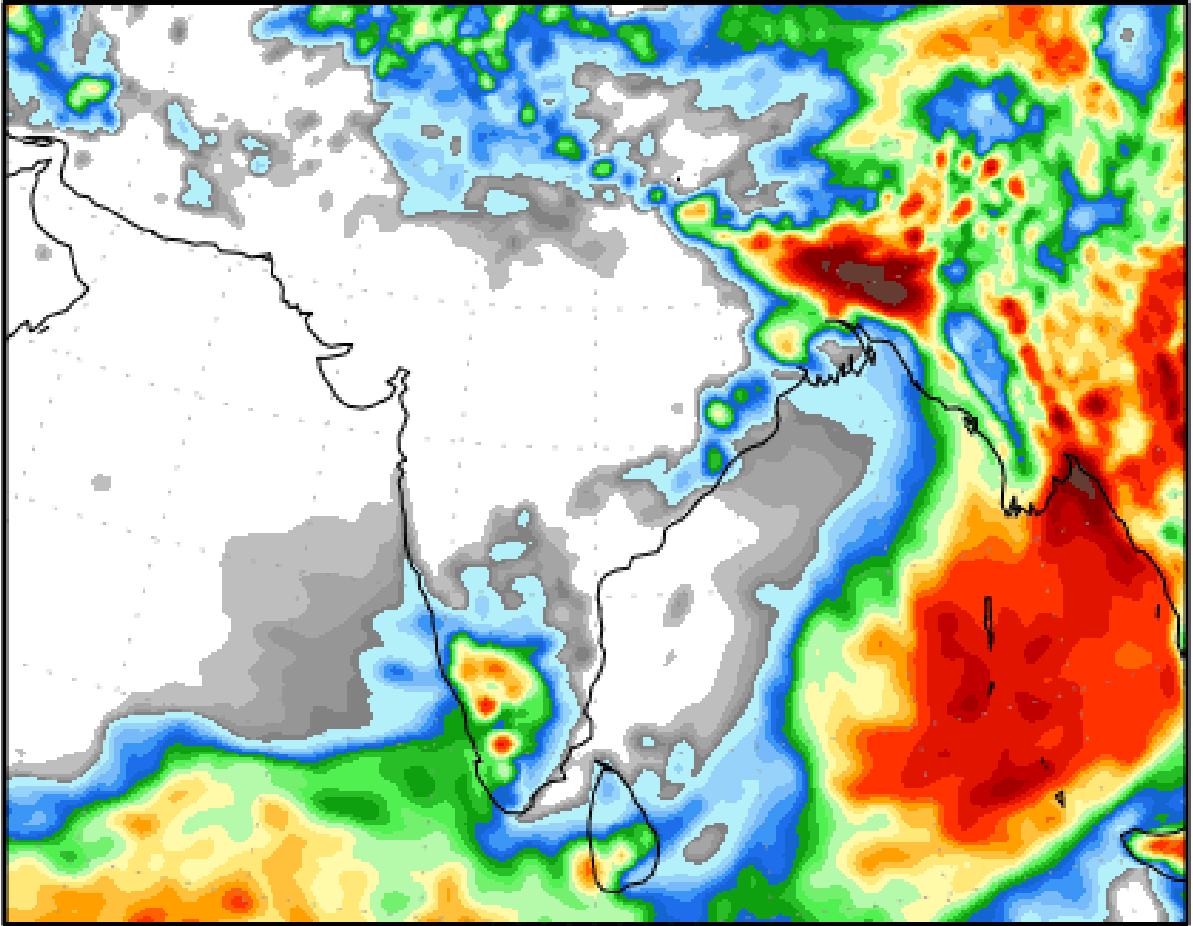


Figure: 2. Precipitation forecast for 23 to 30 May 2019 (Source: NOAA NCEP).