

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 22 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 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 2-3 days.
- 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 3-4 days. Under the influence of a Western Disturbance lying over East Iran and neighbourhood, fairly widespread to widespread precipitation likely over Western Himalayan region and isolated to scattered rain/thundershowers over adjoining plains during 22nd to 24th May. 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, Marathwada, Madhya Pradesh, Chhattisgarh, East Uttar Pradesh, Bihar, Jharkhand and Tamilnadu during next 2-3 days and in isolated pockets over Vidarbha(severe heat wave for next 2 days), Telangana, Rayalaseema and Odisha during next 4-5 days.
- 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 Sub-Himalayan West Bengal & Sikkim; at many places over North & South Interior Karnataka and Andaman & Nicobar Islands and at isolated places over Nagaland, Manipur, Mizoram & Tripura, Odisha, East Rajasthan, West Madhya Pradesh, Vidarbha, Chhattisgarh, Marathwada, Telangana, Rayalaseema, Tamilnadu & Puducherry and Kerala. Heavy rainfall occurred at isolated places over Telangana and Meghalaya. Thunderstorms observed at isolated places over Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Odisha,

West Rajasthan, West Uttar Pradesh, West Madhya Pradesh, Chhattisgarh, Madhya Maharashtra, Telangana, North & South Interior Karnataka, Kerala and Tamilnadu & Puducherry.

- Yesterday, heat Wave Conditions were observed in some part of Madhya Maharashtra and Vidarbha and in isolated pockets over Bihar, Rayalaseema and Tamilnadu & Puducherry.
- Maximum temperature departures as on 21.05.2019: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at most places over Madhya Maharashtra, at many places over Marathwada and Rayalaseema; at a few places over Himachal Pradesh, West Madhya Pradesh, Vidarbha, North Interior Karnataka and Kerala and at isolated places over Andaman & Nicobar Islands and Gangetic West Bengal; above normal (1.6°C to 3.0°C) at most places over Uttarakhand, Jharkhand, Nagaland, Manipur, Mizoram & Tripura, Interior Karnataka and Lakshadweep; at many places over Haryana, Chandigarh & Delhi, East Uttar Pradesh and Madhya Pradesh; at a few places over Jammu & Kashmir, Bihar, Odisha, Coastal Karnataka, Gujarat state and Tamilnadu & Puducherry and at isolated places over Assam & Meghalaya and Konkan & Goa. They were below normal (-1.6°C to -3.0°C) at a few places over Coastal Andhra Pradesh and near normal over rest of the country.
- Yesterday, the highest maximum temperature of 46.6°C was recorded at Chandrapur (Vidarbha).
- Minimum temperature departures as on 22.05.2019: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at a few places over Vidarbha; at isolated places over West Rajasthan and East Uttar Pradesh; above normal (1.6°C to 3.0°C) at most places over Gangetic West Bengal, Jharkhand and Madhya Maharashtra; at many places over Bihar and Kerala; at a few places over Sub-Himalayan West Bengal & Sikkim, West Madhya Pradesh and Tamilnadu & Puducherry; at isolated places over Jammu & Kashmir, East Madhya Pradesh, East Rajasthan, Odisha, Gujarat region, Marathwada and South Interior Karnataka. They are appreciably below normal (-3.1°C to -5.0°C) at isolated places over Telangana and near normal over rest parts of the country.

Weather Warning during next 5 days (IMD)

- 22 May (Day 1): Thunderstorm & lightning accompanied with gusty winds (40-50 kmph) at isolated places over Bihar, Assam & Meghalaya, Telangana and Nagaland, Manipur, Mizoram & Tripura; with gusty winds (30-40 kmph) at isolated places over Kerala, North & South Interior Karnataka, West Madhya Pradesh, Vidarbha, Chhattisgarh, Jammu & Kashmir, Himachal Pradesh, West Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim and Odisha and with dust storm and gusty winds (30-40 kmph) at isolated places very likely over Punjab, Haryana, Chandigarh &

Delhi and Rajasthan. Heavy to Very Heavy rain at isolated places very likely over Assam & Meghalaya and heavy rain at isolated places over Nagaland, Manipur, Mizoram & Tripura. Heat Wave Conditions in some parts with severe heat wave in isolated pockets very likely over Vidarbha; heat wave conditions in some parts over Madhya Maharashtra and in isolated pockets over Telangana, Rayalaseema, south Gujarat state, Marathwada, Madhya Pradesh, Chhattisgarh, East Uttar Pradesh, Odisha, Bihar, Jharkhand and Tamilnadu.

- 23 May (Day 2): Thunderstorm & lightning accompanied with gusty winds (40-50 kmph) at isolated places over Jammu & Kashmir and Himachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; with gusty winds (30-40 kmph) at isolated places over Kerala, Uttarakhand, West Uttar Pradesh, West Bengal & Sikkim, Odisha, Bihar, Jharkhand and South Interior Karnataka and with dust storm and gusty winds (40-50 kmph) at isolated places very likely over Punjab, Rajasthan 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 very likely over Nagaland, Manipur, Mizoram & Tripura and heavy rain at isolated places over Andaman & Nicobar Islands, Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim. Heat Wave Conditions in some parts with severe heat wave in isolated pockets very likely over Vidarbha and heat wave conditions in isolated pockets over Telangana, Rayalaseema, Madhya Maharashtra, Marathwada, Madhya Pradesh, Chhattisgarh, East Uttar Pradesh, Odisha, Jharkhand and Tamilnadu.
- 24 May (Day 3): Thunderstorm & lightning at isolated places very likely over Odisha; accompanied with gusty winds (40-50 kmph) at isolated places likely over Jammu & Kashmir, Himachal Pradesh, Uttarakhand and South Interior Karnataka; with gusty winds (30-40 kmph) at isolated places over Bihar and West Bengal & Sikkim and with dust storm and gusty winds (30-40 kmph) at isolated places over Punjab 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 and Tripura and heavy rain at isolated places over Andaman & Nicobar Islands and South Interior Karnataka. Heat Wave Conditions in some parts very likely over Vidarbha and heat wave conditions in isolated pockets over Telangana, Rayalaseema, Marathwada, East Madhya Pradesh, Chhattisgarh, East Uttar Pradesh, Odisha, and Tamilnadu.
- 25 May (Day 4): Thunderstorm & lightning at isolated places likely over Odisha; accompanied with gusty winds (40-50 kmph) at isolated places likely over South Interior Karnataka; with gusty winds (30-40 kmph) at isolated places over West Bengal & Sikkim and Tamilnadu & Puducherry. Heavy rain at isolated places likely over South Interior Karnataka, Andaman & Nicobar Islands, Assam & Meghalaya.

Heat Wave Conditions in some parts likely over Vidarbha and in isolated pockets over Telangana, Rayalaseema, Coastal Andhra Pradesh, Marathwada and Odisha.

- 26 May (Day 5): Thunderstorm & lightning accompanied with squall (50-60 kmph) at isolated places likely over Gangetic West Bengal and with gusty winds (30-40 kmph) at isolated places over Tamilnadu & Puducherry. Heat Wave Conditions in some parts likely over Vidarbha and in isolated pockets likely over Coastal Andhra Pradesh, Telangana, Rayalaseema and Odisha.
- The weather outlook for the period of seven days *i.e* 21 to 28 May 2019 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thundershower may occur over Sub-Himalayan West Bengal & Sikkim, Rajasthan, West Uttar Pradesh, West Madhya Pradesh, Chhattisgarh, Odisha, Vidarbha, Marathwada, Madhya Maharashtra, Telangana, Rayalaseema, North & South Interior Karnataka, Tamilnadu & Puducherry, Kerala, Andaman & Nicobar Islands and North Eastern States. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Gujarat

Weather condition:

Dry weather prevailed in Gujarat state during past few days. The actual maximum temperature is 0.5 °C lower and actual minimum temperature is 0.9 °C higher than their normal values.

Contingency measure:

- Weeding, interculturing and irrigation should be done in summer crops like pearl millet, green gram, cow pea, okra etc. if required. In greengram, yellow mosaic virus is transmitted by whitefly. For effective control of whitefly infestation spray imidacloprid 3ml per 10 liter of water.
- Brinjal: Growth: Fruit and Shoot borer: If infestation found install 40 pheromone trap. Change lure at 21 day interval, and spray Diclorovos 76 EC 7 ml or Deltamethrin 1% + Triazophos 36% EC 10 ml in 10 lit water.
- Vegetable Crop: Growth: Thrips and Mite: Due to hot and dry condition if mite and thrips incidence occurs spray Methyl-o-demeton 25 EC 10 ml in 10 lit water. Due to

variable weather farmers are advised to constant monitoring against attack of pest and disease in vegetable crop, if symptom observed then take protection measures as per recommendation when sky remain clear.

- Cattle: Under present weather condition keep animals in sheds during noon hours, provide plenty of cool water mixed with minerals for drinking and shower the animals with cold water two to three times in a day. Vaccination should be done for Brucellosis of cattle.

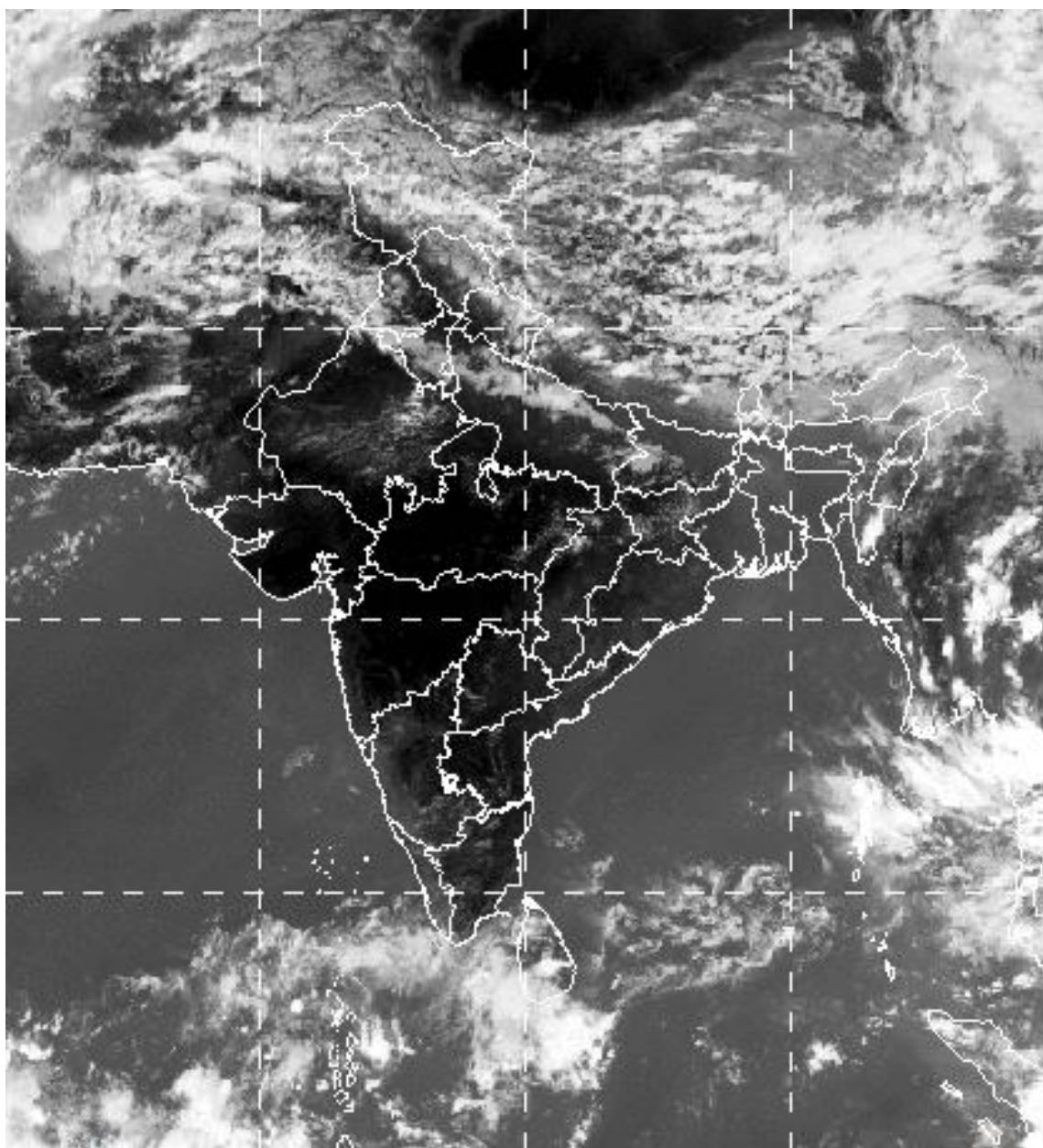


Figure: 1. Latest available satellite picture as on 22 May 2019 at 0230 Hrs (IST).

(Source: IMD).

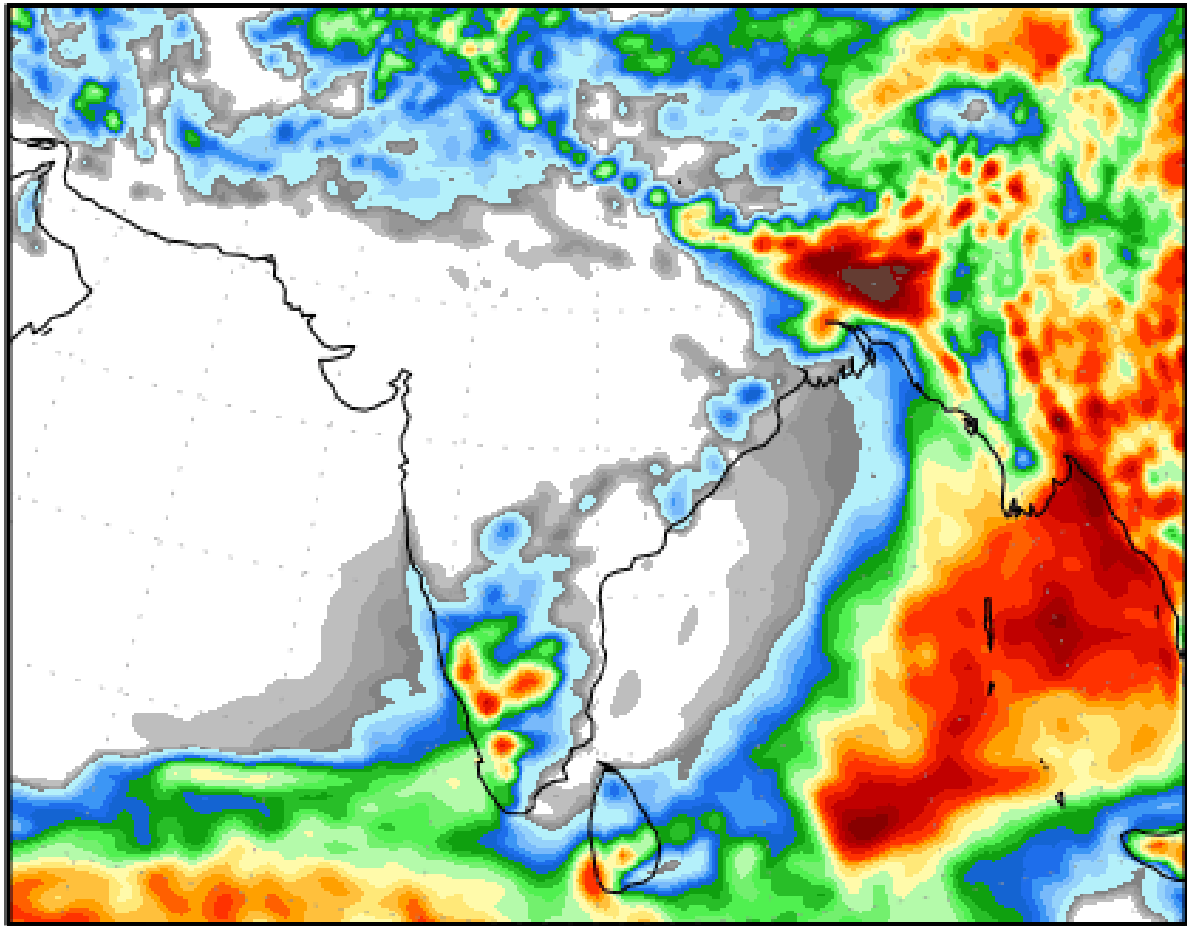


Figure: 2. Precipitation forecast for 22 to 29 May 2019 (Source: NOAA NCEP).