

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 25 May 2019

Significant Weather Features (IMD)

- In view of the sustained rainfall activity over Andaman & Nicobar Islands, Southwest Monsoon has further advanced into some more parts of southeast Bay of Bengal and north Andaman Sea, remaining parts of Nicobar Islands and southern parts of Andaman Islands. The Northern Limit of Monsoon (NLM) passes through Lat. 5°N/Long. 81°E, Lat. 7°N/Long. 88°E, Hut Bay and Lat. 14°N/Long. 98°E. Conditions are likely to become favourable for further advance of Southwest Monsoon into some more parts of South Bay of Bengal, Andaman Islands and north Andaman Sea during 29th-30th May.
- Heat wave conditions in some parts are very likely to continue over Vidarbha and at isolated pockets over Madhya Maharashtra, Telangana, East Madhya Pradesh, Chhattisgarh, East Uttar Pradesh, Jharkhand and Odisha during next 4-5 days.
- Strong surface winds (speed reaching 20-30 kmph) are to very likely over parts of south Haryana & Delhi, north Rajasthan, northwest Madhya Pradesh and West Uttar Pradesh during next 24 hours.
- 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 Jammu & Kashmir, Himachal Pradesh, Punjab and Nagaland, Manipur, Mizoram & Tripura; at many places over Utrakhand, Gangetic West Bengal, Assam & Meghalaya, South Interior Karnataka and Kerala; at a few places over Sub-Himalayan West Bengal & Sikkim, Konkan & Goa and Andaman & Nicobar Islands and at isolated places over Haryana, Chandigarh & Delhi, Uttar Pradesh, East Madhya Pradesh, Odisha, Madhya Maharashtra, Tamilnadu & Puducherry and Rayalaseema. Heavy rainfall observed at isolated places over Kerala. Thunderstorms observed at isolated places over Himachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- Yesterday, Heat Wave Conditions were observed in some parts of Vidarbha and in isolated pockets over south Madhya Maharashtra.

- Maximum temperature departures as on 24.05.2019: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Jharkhand and Madhya Maharashtra; at a few places over Vidarbha, Chhattisgarh and Marathwada; at isolated places over Gangetic West Bengal; above normal (1.6°C to 3.0°C) at most places over Rayalaseema; at many places over East Madhya Pradesh, Konkan & Goa and Kerala; at a few places over Odisha, Telangana, Coastal Karnataka and Tamilnadu & Puducherry and at isolated places over West Madhya Pradesh. They were markedly below normal (-5.1°C or less) at most places over Jammu & Kashmir and Himachal Pradesh; at many places over Punjab, Haryana, Chandigarh & Delhi and Nagaland, Manipur, Mizoram & Tripura; at a few places over West Uttar Pradesh and Assam & Meghalaya; below normal (-1.6°C to -3.0°C) at many places over West Rajasthan and Sub-Himalayan West Bengal & Sikkim; at a few places over East Rajasthan and Bihar and at isolated places over Andaman & Nicobar Islands and near normal over rest of the country.
- Yesterday, the highest maximum temperature of 46.6°C recorded at Chandrapur (Vidarbha).
- Minimum temperature departures as on 25.05.2019: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at a few places over Chhattisgarh and at isolated places over Madhya Pradesh; above normal (1.6°C to 3.0°C) at most places over Marathawada; at many places over Madhya Maharashtra, Telangana, Jharkhand and Andaman & Nicobar; at a few places over West Rajasthan, Gujarat Region, Vidarbha, Odisha, Tamilnadu & Puducherry, Sub- Himalayan West Bengal & Sikkim and Konkan & Goa and at isolated places over East Rajasthan, Rayalaseema, East Uttar Pradesh, Bihar and Gangetic West Bengal. They are appreciably below normal (-3.1°C to -5.0°C) at isolated places over Jammu & Kashmir and Himachal Pradesh; below normal (-1.6°C to -3.0°C) at most places over Punjab and Haryana, Chandigarh & Delhi and at isolated places over West Uttar Pradesh, West Madhya Pradesh and Assam & Meghalaya and near normal over rest parts of the country.

Weather Warning during next 5 days (IMD)

- 25 May (Day 1): Thunderstorm & lightning at isolated places very likely over Odisha. Thunderstorm & lightning accompanied with gusty winds (40-50 kmph) at isolated places very likely over Nagaland, Manipur, Mizoram & Tripura; with gusty winds (30-40 kmph) at isolated places very likely over Tamilnadu, Kerala, South Interior Karnataka, Rayalaseema, Telangana, Coastal Andhra Pradesh, West Bengal & Sikkim and Assam & Meghalaya. Duststorm/thunderstorm and gusty winds (30-40 kmph) at isolated places over West Rajasthan. Heavy rainfall at isolated places very likely over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Kerala and South Interior Karnataka. Squally Weather with wind speed 40-50 kmph gusting to 60 kmph very likely over southeast Arabian Sea and along & off Kerala

coast. Fisherman are advised not to venture into these areas. Heat Wave Conditions in some parts very likely over Vidarbha and in isolated pockets very likely over Telangana, south Madhya Maharashtra, Marathwada, East Madhya Pradesh, Chhattisgarh, Jharkhand and Odisha.

- 26 May (Day 2): Thunderstorm & lightning at isolated places very likely over Odisha. Thunderstorm & lightning accompanied with gusty winds (30-40 kmph) at isolated places very likely over Tamilnadu, Kerala, South Interior Karnataka, Rayalaseema, Coastal Andhra Pradesh, Sub-Himalayan West Bengal & Sikkim. Heavy rainfall at isolated places very likely over South Interior Karnataka. Heat Wave Conditions in some parts very likely over Vidarbha and in isolated pockets very likely over Telangana, south Madhya Maharashtra, Marathwada, East Madhya Pradesh, Chhattisgarh, Jharkhand and Odisha. Strong winds speed reaching 35-45 kmph very likely over northeast Arabian Sea and along & off north Gujarat Coast. Fishermen are advised not to venture into this area.
- 27 May (Day 3): Thunderstorm and lightning at isolated places very likely over Odisha. Heavy rainfall at isolated places very likely over Sub-Himalayan West Bengal & Sikkim. Heat Wave Conditions in some parts very likely over Vidarbha and in isolated pockets over East Uttar Pradesh, Telangana, North Interior Karnataka, south Madhya Maharashtra, Marathwada, East Madhya Pradesh, Chhattisgarh, Jharkhand and Odisha. Strong winds speed reaching 35-45 kmph very likely over northeast Arabian Sea and along & off north Gujarat Coast. Fishermen are advised not to venture into this area.
- 28 May (Day 4): Thunderstorm & lightning accompanied with gusty winds (40-50 kmph) at isolated places likely over Tamilnadu; with gusty winds (30-40 kmph) at isolated places likely over Odisha and Assam & Meghalaya. Heavy rainfall at isolated places likely over Tamilnadu, Andaman & Nicobar Islands and Sub-Himalayan West Bengal & Sikkim. Heat Wave Conditions in some parts likely over Vidarbha and in isolated pockets over East Uttar Pradesh, Telangana, North Interior Karnataka, south Madhya Maharashtra, Marathwada, East Madhya Pradesh, Chhattisgarh, Jharkhand and Odisha. Strong winds speed reaching 35-45 kmph likely over northeast Arabian Sea and along & off north Gujarat Coast. Fishermen are advised not to venture into this area.
- 29 May (Day 5): Thunderstorm & lightning accompanied with Squall (50-60 kmph) at isolated places likely over Assam & Meghalaya; with gusty winds (40-50 kmph) at isolated places likely over Tamilnadu & Puducherry; with gusty winds (30-40 kmph) at isolated places likely over Odisha. Heavy rainfall at isolated places likely over Assam & Meghalaya, Tamilnadu, Andaman & Nicobar Islands and Sub-Himalayan West Bengal & Sikkim. Heat Wave Conditions in some parts likely over Vidarbha and in isolated pockets over East Uttar Pradesh, North Interior Karnataka, south Madhya Maharashtra, East Madhya Pradesh and Chhattisgarh. Strong winds speed

reaching 35-45 kmph likely over northeast Arabian Sea and along & off north Gujarat Coast. Fishermen are advised not to venture into this area.

- The weather outlook for the period of seven days *i.e* 25 May to 01 June 2019 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thundershower may occur over Jammu & Kashmir, Uttrakhand, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Gangetic West Bengal, East Madhya Pradesh, Odisha, Konkan & Goa, Madhya Maharashtra, Rayalaseema, South Interior Karnataka, Kerala, Tamilnadu & Puducherry, Andaman & Nicobar Islands and North Eastern States. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Konkan region of Maharashtra

Weather condition:

Dry weather prevailed in Konkan region of Maharashtra state during past few days. The maximum and minimum temperature ranged from 32.6 to 35.4 °C and 20.5 to 22.5°C , respectively.

Contingency measure:

- **Mango:** Due to forecast of light rains, harvest the mature fruits before 10 hours in the morning and after 16 hours in the evening with the help on Nutan mango harvester at 80 to 85% maturity immediately which will help to reduce spongy tissue. Keep the harvested fruits in shade to prevent from heat and spongy tissue. To prevent incidence of post harvest diseases on fruits, place the fruits in hot water of 52oC for 10 minutes and then keep for ripening. Use C.F.B. (corrugated fiber box) for packing developed by B. S. Konkan Krishi Vidyapeeth, Dapoli. Transport of harvested fruits should be done preferably during night hours. Do not spray any insecticides/fungicides 8 days before harvesting of mango fruits. For control of fruit fly incidence, install 'Rakshak fruit fly trap' developed by University @ 4 traps per hectare. Collect and destroy fallen fruits and keep orchard clean
- **Mango and Cashewnut:** There is forecast for increase in temperature and decrease in afternoon relative humidity, provide irrigation to newly planted mango and cashew orchard at interval of 4 to 5 days also use straw or polythene mulch to reduce evaporation losses

- Arecanut: There is forecast for increase in temperature and decrease in afternoon relative humidity, provide irrigation to arecanut orchard at interval of 4 to 5 days. To protect the stem of arecanut from sunburn from south direction, cover the stem with grasses or branches of arecanut palm
- Coconut: There is forecast for increase in temperature and decrease in afternoon relative humidity, provide irrigation to coconut orchard at interval of 5 to 6 days also use straw mulch to reduce evaporation losses
- Sapota: There is forecast for increase in temperature and decrease in afternoon relative humidity, provide irrigation to newly planted sapota orchard at interval of 4 to 5 days also use straw or polythene mulch to reduce evaporation losses. There is possibility for fruit drop due to fungal disease during rainy season, to control the fruit drop, clean the sapota tree by removing all diseased and dried branches and apply 1 % bordopaste on the cut portion of tree. Also spray 1% bordomixture on to tree before start of rainy season. Repeat the spray twice at 15-20 days interval
- Vegetables/Fruit crop nursery: For nursery of brinjal, chilli and tomato vegetables crops, prepare raised bed of 3m length x 1 m breadth x 15cm height. Apply 5 kg FYM, 35gm urea, 100gm single super phosphate and 25gm muriate of potash per sq. m. Sow the vegetable seed if irrigation facility is available. Treat the seed with thiram fungicide @ 3 gm/kg of seed before sowing. To protect the seedling from incidence of wilt disease, drenching of 1% bordomixture 3 to 4 days before sowing on nursery bed is suggested. There is forecast for increase in temperature and decrease in afternoon relative humidity, provide sufficient irrigation to fruit crop nursery also provide shed to nursery seedlings
- Milch animal /goat/poultry: Provide clean, hygienic and plenty amount of drinking water to farm animals and poultry birds. To reduce the stress of heat in farm animals, provide roughages by mixing with solution of 1% jaggery and 0.5% salt separately. Use wet gunny bags as side curtains to protect animals and poultry birds from direct hot winds. To protect animals from heat, sprinkle cold water on animals during the afternoon, it will help to maintain the body temperature. Due to increase in temperature, avoid grazing of farm animals during afternoon hours. In poultry shed, increase the water pot and provide adequate and clean water for drinking. Also, feed should be given in the morning or evening hours.

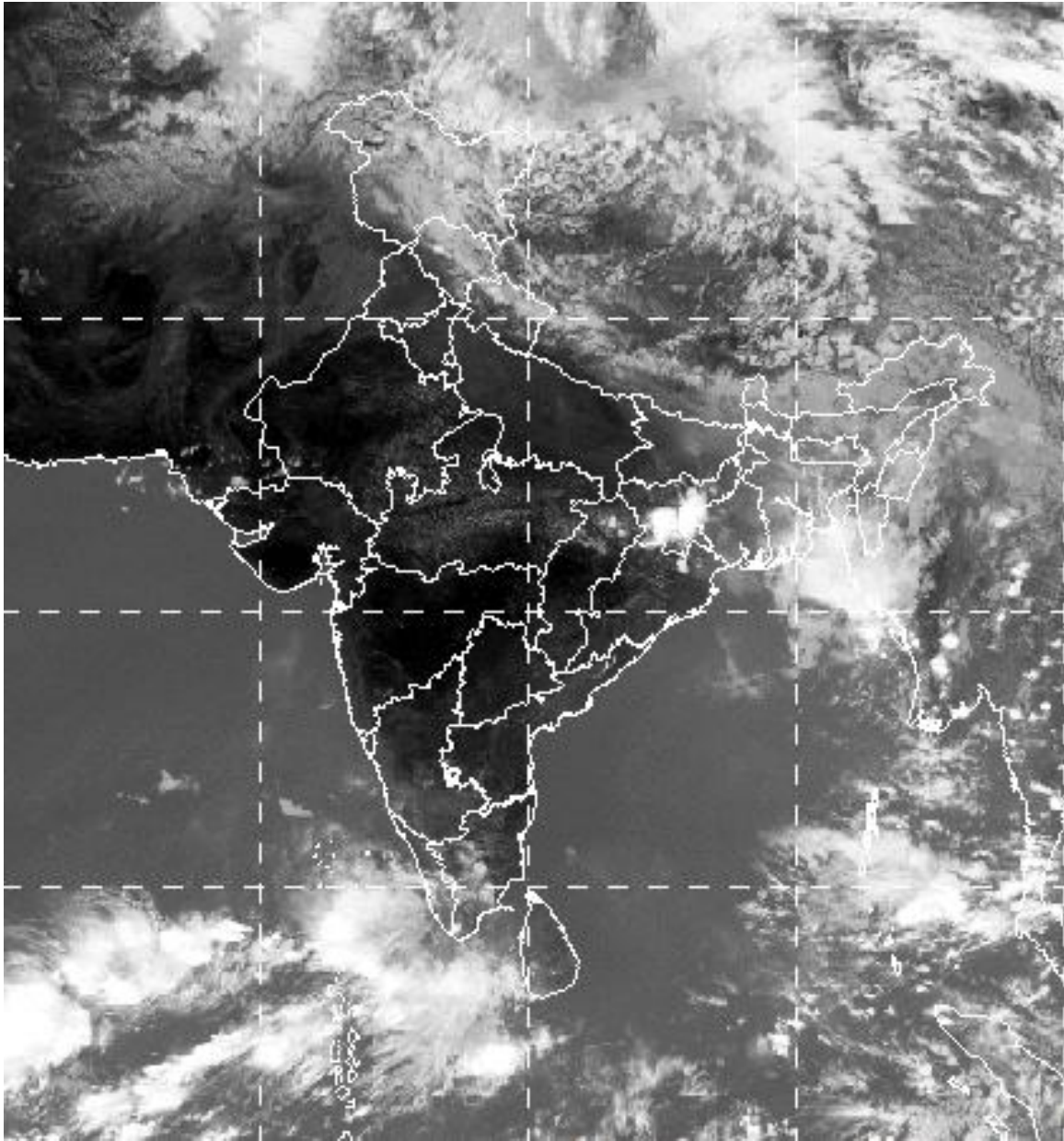


Figure: 1. Latest available satellite picture as on 25 May 2019 at 0230 Hrs (IST).

(Source: IMD).

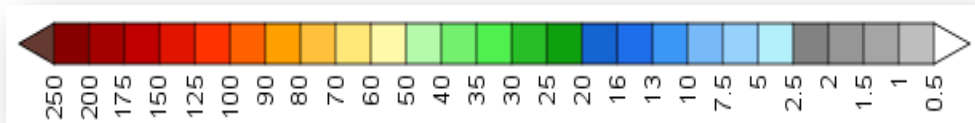
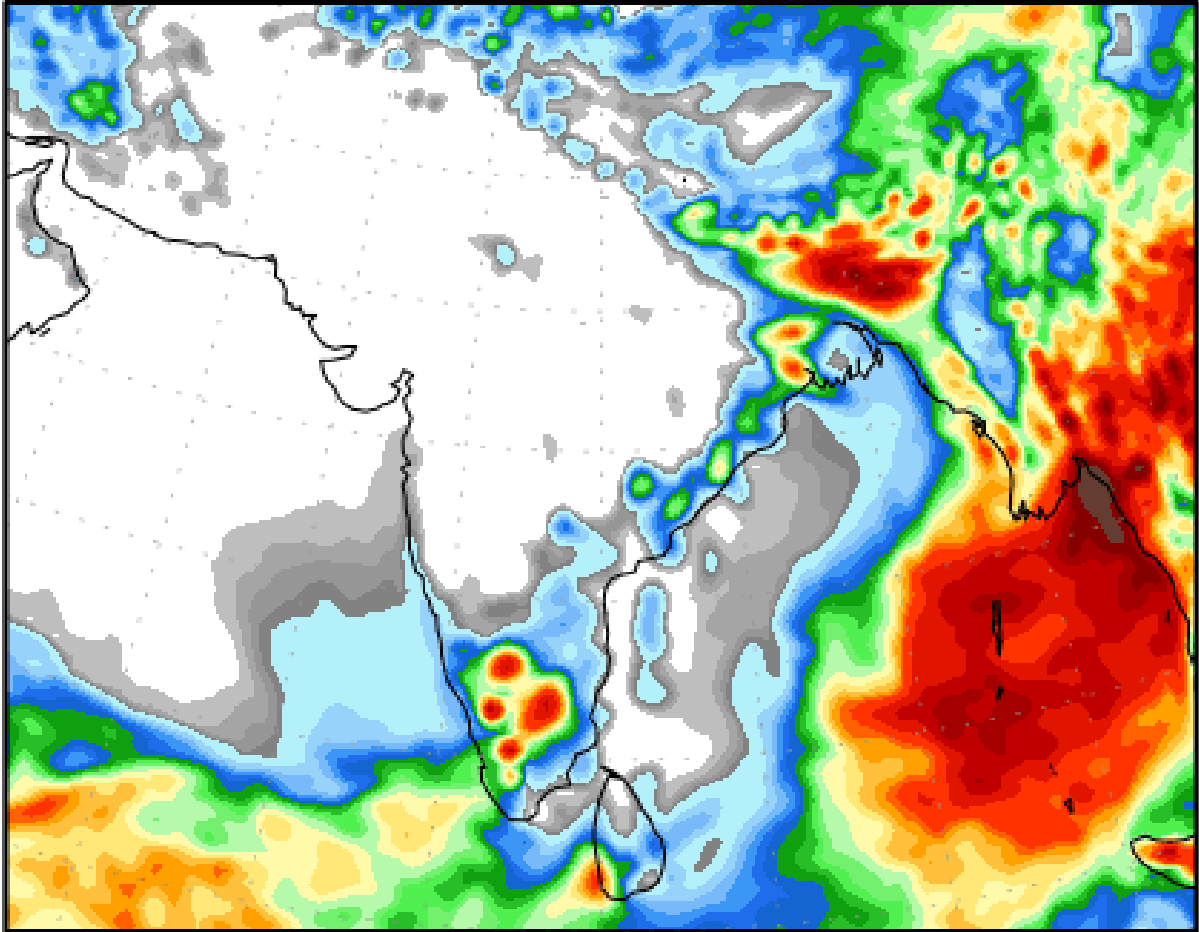


Figure: 2. Precipitation forecast for 25 May to 01 June 2019 (Source: NOAA NCEP).