

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 29 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, Hut Bay and Lat. 14°N/Long. 98°E. Conditions are becoming favourable for further advance of Southwest Monsoon into some parts of Maldives-Comorin area, some more parts of South Bay of Bengal, Andaman Islands and north Andaman Sea during next 48 hours.
- Widespread rainfall very likely over Andaman & Nicobar during next 4 days. Fairly widespread to widespread rainfall activity with isolated heavy falls very likely to occur over Sub-Himalayan West Bengal & Sikkim and northeastern states from 30 May onwards.
- Heat wave to severe heat wave conditions in many parts are very likely to continue over Vidarbha; in some parts over Madhya Pradesh ; at isolated pockets over Madhya Maharashtra, Marathwada, Telangana, Haryana, Chandigarh & Delhi, Rajasthan, Bihar, Jharkhand, Uttar Pradesh and Odisha during next 2-3 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 1730 hours IST of today): at most places over South Interior Karnataka; at many places over Kerala and Andaman & Nicobar; at a few places over North Interior Karnataka, Odisha and Assam & Meghalaya and at isolated places over West Madhya Pradesh, Coastal Andhra Pradesh, West Bengal & Sikkim and Nagaland, Manipur, Mizoram & Tripura. Thunderstorms observed (from 1730 hours IST of yesterday to 0830 hours IST of today): at isolated places over Chhattisgarh, Rayalaseema, Coastal Andhra Pradesh, Odisha, Tamilnadu & Puducherry, Kerala, Sub-Himalayan West Bengal & Sikkim, East Rajasthan and Madhya Pradesh.
- Yesterday, Heat Wave Conditions were observed in many parts with severe heat wave in isolated places over of Vidarbha; in some parts over West Rajasthan and

southeast Uttar Pradesh and in isolated pockets over Madhya Pradesh and Telangana.

- Maximum temperature departures as on 28.05.2019: Maximum temperatures were markedly above normal (5.1°C or more) at isolated places over Madhya Maharashtra and Kerala; appreciably above normal (3.1°C to 5.0°C) at most places over Vidarbha, Marathawada, Rayalaseema and Jharkhand; at many places over North Interior Karnataka, Tamilnadu & Puducherry and Telangana; at a few places over Coastal Karnataka, Madhya Pradesh, East Uttar Pradesh and Bihar and at isolated places over South Interior Karnataka, Coastal Andhra Pradesh, Rajasthan, Gangetic West Bengal and Saurashtra & Kutch; above normal (1.6°C to 3.0°C) at most places over Punjab and Nagaland, Manipur, Mizoram & Tripura; at many places over Gujarat Region and West Uttar Pradesh and at isolated places over Haryana, Chandigarh & Delhi; They were below normal (-1.6°C to -3.0°C) at a few places over Andaman & Nicobar and near normal over rest parts of the country.
- Yesterday, the highest maximum temperature of 47.8°C was recorded at Chandrapur (Vidarbha).
- Minimum temperature departures as on 29.05.2019: Minimum temperatures are appreciably above normal (3.1 to 5.0) at a few places over West Rajasthan and Telangana and at isolated places over Rayalaseema and Bihar; above normal (1.6°C to 3.0°C) at many places over Coastal Karnataka; at a few places over East Rajasthan, Madhya Pradesh, Vidarbha, Marathwada, Coastal Andhra Pradesh, Tamilnadu & Puducherry and Gangetic West Bengal; at isolated places over Himachal Pradesh, Uttrakhand, Madhya Maharashtra, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. They are appreciably below normal (-3.1°C to -5.0°C) at isolated places over Odisha; below normal (-1.6°C to -3.0°C) at many places over Chhattisgarh and Haryana, Chandigarh & Delhi and at isolated places over Jammu & Kashmir; South Interior Karnataka and East Uttar Pradesh and near normal over rest parts of the country.

Weather Warning during next 5 days (IMD)

- 29 May (Day 1): Thunderstorm & lightning accompanied with squall (50-60 kmph) at isolated places very likely over Coastal Andhra Pradesh and Chhattisgarh; with gusty winds (40-50 kmph) at isolated places over Tamilnadu; with gusty winds (30-40 kmph) at isolated places over Kerala, South Interior Karnataka, Rayalaseema, Lakshadweep, West Bengal & Sikkim, Jharkhand, Odisha, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Heavy rainfall at isolated places very likely over north Coastal Andhra Pradesh, Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya. Heat Wave to severe heat wave conditions in isolated pockets very likely over East Uttar Pradesh; heat wave conditions in most parts with severe heat wave in some parts over Vidarbha; heat wave conditions in many parts

with severe heat wave in isolated pockets over West Rajasthan and East Madhya Pradesh.; in some parts over West Madhya Pradesh, East Rajasthan & Marathwada and at isolated pockets over Telangana, Rayalaseema, Tamilnadu, Madhya Maharashtra, Saurashtra & Kutch, Haryana, West Uttar Pradesh, Bihar and Jharkhand. Strong wind with speed reaching 40-50 kmph very likely to prevail over Andaman Sea and adjoining southeast Bay of Bengal. Squally weather likely to prevail over southeast Arabian Sea. Fishermen are advised not to venture into this area.

- 30 May (Day 2): Thunderstorm & lightning accompanied with gusty winds (40-50 kmph) at isolated places over Tamilnadu; with gusty winds (30-40 kmph) at isolated places over Kerala, South Interior Karnataka, Coastal Andhra Pradesh, Rayalaseema, Lakshadweep, Chhattisgarh, West Bengal & Sikkim, Jharkhand and Odisha. Heavy rainfall at isolated places very likely over South Interior Karnataka, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and Assam & Meghalaya. Heat Wave to severe heat wave conditions in isolated pockets very likely over East Uttar Pradesh; heat wave conditions in most parts with severe heat wave in some parts over Vidarbha; heat wave conditions in many parts with severe heat wave in isolated pockets over West Rajasthan and East Madhya Pradesh; in some parts over West Madhya Pradesh, East Rajasthan & Marathwada and at isolated pockets over Telangana, Rayalaseema, Tamilnadu, Madhya Maharashtra, Haryana, West Uttar Pradesh, Bihar and Jharkhand. Strong wind with speed reaching 40-50 kmph very likely to prevail over Andaman Sea and adjoining southeast Bay of Bengal. Squally weather likely to prevail over southeast Arabian Sea. Fishermen are advised not to venture into this area.
- 31 May (Day 3): Thunderstorm & lightning accompanied with squall (50-60 kmph) at isolated places very likely over Coastal Andhra Pradesh and Chhattisgarh; with gusty winds (40-50 kmph) at isolated places over Tamilnadu; with gusty winds (30-40 kmph) at isolated places over South Interior Karnataka, Rayalaseema, West Bengal & Sikkim, Bihar, Jharkhand and Odisha. Heavy rainfall at isolated places very likely over South Interior Karnataka, Andaman & Nicobar Islands and Assam & Meghalaya. Heat Wave to severe heat wave conditions in isolated pockets very likely over East Uttar Pradesh; heat wave conditions in many parts over Vidarbha; heat wave conditions in some parts with severe heat wave in isolated pockets over West Rajasthan; in some parts over Madhya Pradesh and at isolated pockets over Telangana, Marathwada, Haryana, Punjab, West Uttar Pradesh, East Rajasthan. Strong wind with speed reaching 40-50 kmph very likely to prevail over Andaman Sea and adjoining southeast Bay of Bengal. Squally weather likely to prevail over southeast Arabian Sea. Fishermen are advised not to venture into this area.
- 01 Jun (Day 4): Thunderstorm & lightning accompanied with squall (50-60 kmph) at isolated places very likely over Gangetic West Bengal; with gusty winds (30-40

kmph) at isolated places over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, South Interior Karnataka, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Bihar, Jharkhand and Odisha. Heavy rainfall at isolated places very likely over South Interior Karnataka, West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura and Assam & Meghalaya. Heat wave conditions in some parts with severe heat wave at isolated pockets likely over West Rajasthan; heat wave conditions in some parts over Vidarbha and East Madhya Pradesh and at isolated pockets over Haryana, Punjab, Uttar Pradesh and East Rajasthan. Strong wind with speed reaching 40-50 kmph very likely to prevail over Andaman Sea and adjoining southeast Bay of Bengal. Fishermen are advised not to venture into this area.

- 02 Jun (Day 5): Thunderstorm & lightning accompanied with gusty winds (40-50 kmph) at isolated places likely over Rayalaseema, ; with gusty winds (30-40 kmph) at isolated places likely over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Chhattisgarh, Odisha, Bihar, Jharkhand, West Bengal & Sikkim and South Interior Karnataka. Heavy to very heavy rainfall at isolated places likely over Assam & Meghalaya and Heavy rainfall at isolated places over Nagaland, Manipur, Mizoram & Tripura. Heat Wave Conditions in some parts likely over Vidarbha and East Madhya Pradesh and at isolated pockets over West Madhya Pradesh.

The weather outlook for the period of seven days *i.e.* 29 May to 05 June 2019 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thundershower may occur over East Rajasthan, Sub-Himalayan West Bengal & Sikkim, West Madhya Pradesh, Chhattisgarh, Odisha, Coastal Andhra Pradesh, Rayalaseema, North Interior Karnataka, South Interior Karnataka, Kerala, Coastal Andhra Pradesh, Tamilnadu & Puducherry, Andaman & Nicobar Islands and North Eastern States. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Jammu & Kashmir

Weather condition:

Light rainfall received in Jammu region of Jammu & Kashmir state during past few days. The maximum temperature remained variable and was in the range of 30.6 to 40.4 °C and minimum temperatures remain almost below normal by 1.0 to 2.0 °C and ranged from 18.6 to 25.4 °C.

Contingency measure:

- Paddy: Farmers may go for land preparation and nursery raising of early transplanted rice (var. IET-1410, K-39, Ratna, PC-19, Jaya). Before nursery raising treat the seed with Carbendazim or Bavistin @2gm/Kg.

- Pulses: Hoeing and weeding may be taken up. Floriculture :Give irrigation as per requirement. Hoeing is recommended. Hoeing and weeding is recommended. Farmers may go for flower harvest. Hoeing and weeding is recommended.
- Vegetables: Spray mancozeb @ 0.2%, if symptoms of downey mildew and leaf spot are observed. Earthing up operation with proper formation of raised beds is recommended. Weeding is recommended.
- Horticulture: Give frequent irrigation to young plants. Remove water suckers. Farmers may spray imidacloprid @ 0.3ml/lit water to check leaf hopper & mealy bug and dimethoate @ 1ml/lit to control mango hopper. Due to rise in temperature farmers are advised to protect young fruit plants from heat by providing thatches/cover but ensure free circulation of air. Spray dimethoate @ 1ml/lit to control citrus psylla, leaf miner & butterfly.
- Sericulture: Mulberry Farm/individual mulberry trees should be irrigated periodically at an interval of 15-20 days. Rigorous disinfection of used appliances in the recently completed spring rearing should be adopted with 2-14 per cent formaline solution.
- Milky mushroom: Maintain temperature of cropping room between 25 0C - 30 0C for proper spawn run. Maintain 90-95% humidity in cropping rooms. Spray chlorothalonil @ 0.5% and deltamethrin @ 0.01% to control competitor fungi. Farmers interested in growing milky mushroom may book the spawn of milky mushroom as the season will continue up to end of July.
- Apiculture: For protection against ants, put the legs of apiary into water so that ants could not attack the apiary.
- Poultry: Proper ventilation must be maintained at poultry house. Vaccinate chicks against new castle disease and gumbroo disease. Spread clean litter material uniformly in the poultry house at thickness of 2-3 inches. Care should be taken that poultry birds at brooding age should not come in direct contact with rain.
- Live stock: Provide water bath 3-4 times in a day. Sprinkle water in sheds to reduce heat stress. Increase protein content in animal ration by 2%. Mineral mixture should be supplemented in diet. Give vaccination against FMD. Livestock needs to be dewormed against strongly in plain areas of Jammu. Provide adequate amount of fresh cool and clean drinking water.
- Fisheries: Farmers who have stocked fish livestock in their ponds are advised to maintain proper water level in their fish ponds.

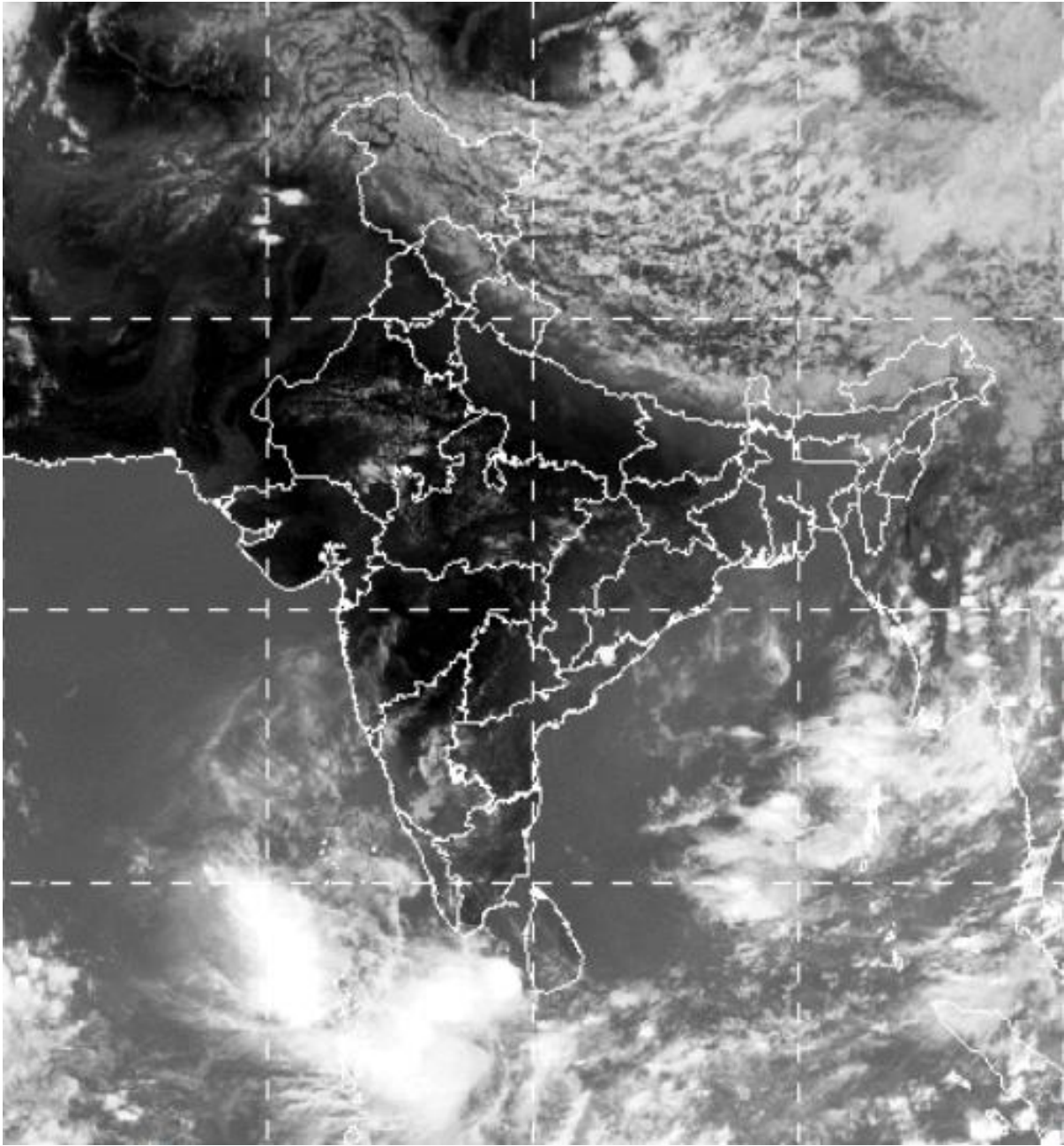


Figure: 1. Latest available satellite picture as on 29 May 2019 at 0230 Hrs (IST).

(Source: IMD).

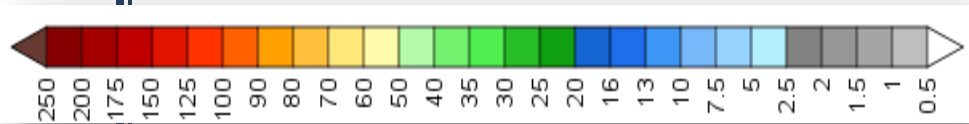
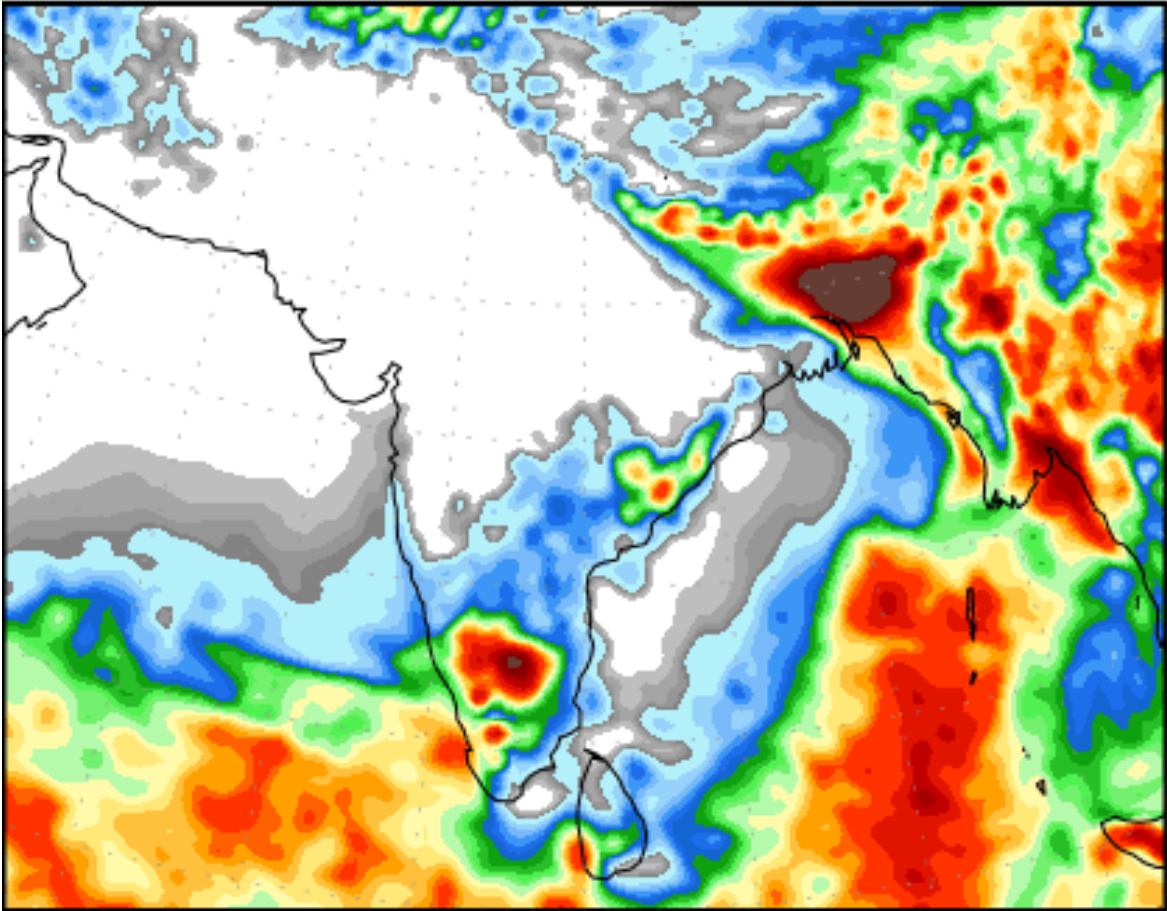


Figure: 2. Precipitation forecast for 29 May to 05 June 2019 (Source: NOAA NCEP).