

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 07 May 2019

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Heat Wave conditions are very likely to prevail over parts of Vidarbha, Coastal Andhra Pradesh and Telangana during next 4 days and over parts of eastern India mainly during 8th - 11th May.
- Dust raising winds very likely over parts of Rajasthan and Haryana & Delhi during next 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 0830 hours IST of today): at many places over Arunachal Pradesh and Andaman & Nicobar Islands; at a few places over Assam & Meghalaya and Coastal & South Interior Karnataka and at isolated places over West Bengal & Sikkim, Odisha, Rayalaseema, Kerala and Tamilnadu & Puducherry. Thunderstorms observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Assam & Meghalaya, Kerala and Odisha. Heavy Rainfall observed at isolated places over Assam & Meghalaya.
- Yesterday, heat wave conditions were observed in isolated pockets over Coastal Andhra Pradesh and Telangana.
- Maximum temperature departures as on 06.05.2019: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Sub-Himalayan West Bengal and Bihar; at a few places over Coastal Andhra Pradesh, Telangana, Rayalaseema, Tamilnadu & Puducherry; at isolated places over Coastal & South Interior Karnataka and Kerala; above normal (1.6°C to 3.0°C) at most places over Nagaland, Manipur, Mizoram & Tripura, Uttarakhand, East Uttar Pradesh and West Rajasthan; at many places over Gangetic West Bengal and Chhattisgarh; at a few places over Assam & Meghalaya, Punjab, Haryana, Chandigarh & Delhi, Himachal Pradesh, Jammu & Kashmir, West Uttar Pradesh, Saurashtra & Kutch and Madhya Maharashtra and at isolated places over Vidarbha. They were below normal (-1.6°C

to -3.0°C) at many places over Andaman & Nicobar Islands, Arunachal Pradesh; at isolated places over Odisha and near normal over rest of the country.

- Yesterday, the highest maximum temperature of 45.6°C was recorded at Bramhapuri (Vidarbha) and Khammam (Telangana).
- Minimum temperature departures as on 07.05.2019: Minimum temperatures are above normal (1.6°C to 3.0°C) at most places over Sub-Himalayan West Bengal & Sikkim; at many places over West Rajasthan, Rayalaseema, Kerala and Tamilnadu & Puducherry; at a few places over Vidarbha, Chhattisgarh, Telangana, Coastal Andhra Pradesh and South Interior Karnataka and at isolated places over East Rajasthan and Assam & Meghalaya. They are appreciably below normal (-3.1°C to -5.0°C) at many places over Haryana, Chandigarh & Delhi; at isolated places over Himachal Pradesh and Saurashtra & Kutch; below normal (-1.6°C to -3.0°C) at many places over Jammu & Kashmir and Uttarakhand; at a few places over Punjab, Uttar Pradesh, Bihar, Jharkhand and Madhya Pradesh; at isolated places over Odisha and near normal over rest parts of the country.

Weather Warning during next 5 days (IMD)

- 07 May (Day 1): Thunderstorm & lightning accompanied with gusty wind (speed reaching 40-50 kmph) at isolated places very likely over north Coastal Andhra Pradesh and Tamilnadu & Puducherry; (wind speed reaching 30-40 kmph) at isolated places over Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal & South Interior Karnataka and Kerala. Heat wave conditions in some parts very likely over Telangana and Coastal Andhra Pradesh and at isolated pockets over South East Uttar Pradesh, interior Tamilnadu and Vidarbha. Heavy rainfall at isolated places very likely over South Interior Karnataka and Tamilnadu. Dust raising winds are very likely in parts of Rajasthan and Haryana & Delhi.
- 08 May (Day 2): Thunderstorm & lightning accompanied with gusty wind (speed reaching 40-50 kmph) at isolated places very likely over Tamilnadu & Puducherry; (wind speed reaching 30-40 kmph) at isolated places very likely over Sub Himalayan West Bengal & Sikkim, Odisha, South Interior Karnataka and Kerala. Heat Wave in some parts with Severe Heat Wave conditions at isolated pockets are very likely over Vidarbha. Heat Wave conditions in some parts are very likely over Coastal Andhra Pradesh and Telangana and in isolated pockets over southeast Uttar Pradesh and Bihar. Heavy rainfall at isolated places very likely over Tamil Nadu & Puducherry. Dust raising winds are very likely in parts of Rajasthan and Haryana & Delhi.
- 09 May (Day 3): Thunderstorm/Duststorm & lightning accompanied with gusty wind (speed reaching 30-40 kmph) at isolated places very likely over Sub-

Himalayan West Bengal & Sikkim, Odisha, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Heat Wave in some parts with Severe Heat Wave conditions at isolated pockets are very likely over Vidarbha. Heat Wave conditions in isolated pockets are very likely over southeast Uttar Pradesh, Bihar, Coastal Andhra Pradesh and Telangana. Dust raising winds are very likely in parts of Rajasthan and Haryana & Delhi.

- 10 May (Day 4): Thunderstorm/Duststorm & lightning accompanied with gusty wind (speed reaching 40-50 kmph) at isolated places likely over Rajasthan; (speed reaching 30-40 kmph) at isolated places likely over Punjab, Haryana, Chandigarh & Delhi and West Uttar Pradesh. Thunderstorm & lightning accompanied with hail, gusty wind (speed reaching 40-50 kmph) at isolated places likely over Himachal Pradesh and Uttarakhand. Thunderstorm & lightning accompanied with gusty wind (speed reaching 40-50 kmph) at isolated places likely over West Madhya Pradesh and Vidarbha; (speed reaching 30-40 kmph) at isolated places over Jammu & Kashmir, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra and Marathwada and Thunderstorm & lightning at isolated places over Gujarat state. Heavy Rainfall is likely at isolated places over Arunachal Pradesh and Assam & Meghalaya. Heat Wave conditions likely in isolated pockets over Vidarbha, Odisha, Coastal Andhra Pradesh and Telangana.
- 11 May (Day 5): Thunderstorm/Duststorm & lightning accompanied with gusty wind (speed reaching 40-50 kmph) at isolated places likely over Rajasthan, Punjab, Haryana, Chandigarh & Delhi and West Uttar Pradesh; (speed reaching 30-40 kmph) at isolated places likely over East Uttar Pradesh. Thundersquall & lightning accompanied with hail (speed reaching 50-60 kmph) at isolated places likely over Uttarakhand. Thunderstorm & lightning accompanied with hail, gusty wind (speed reaching 40-50 kmph) at isolated places likely over Himachal Pradesh. Thunderstorm & lightning accompanied with gusty wind (speed reaching 40-50 kmph) at isolated places likely over Jammu & Kashmir, Madhya Pradesh and Vidarbha; (speed reaching 30-40 kmph) at isolated places over Gujarat state, Chhattisgarh, Madhya Maharashtra and Marathwada and Thunderstorm & lightning at isolated places over Gujarat state. Heat Wave conditions likely in isolated pockets over Odisha.
- The weather outlook for the period of seven days *i.e* 07 to 14 May 2019 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thundershower may occur over West Bengal & Sikkim, Odisha Coastal & South Interior Karnataka, Rayalaseema, Kerala, Tamilnadu & Puducherry, Andaman & Nicobar Islands and North Eastern States. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Chhattisgarh

Weather condition:

Light rainfall received in Chhattisgarh state during past few days.

Contingency measure:

- The farmers having facility of drip irrigation system for vegetables and plantation crops should regulate the water discharge rate accordingly to maintain proper soil moisture around root zone.
- Deep ploughing of the field should be done and covered with polythene. This will prevent crops from soil borne diseases, weeds and insect eggs will be destroyed in the soil. Mould board plough should be used for fields summer ploughing in the fields.
- In the new crop of sugarcane need based irrigation and intercultural operation should be done. Cut the Hybrid Napier perennial forage crops 15 cm above the ground level at an interval of 50-60 days. After harvesting give light irrigation and broadcast urea @ 25-30 kg per ha.
- Vegetables: Need based irrigation and intercultural operation should be done in tomato, brinjal, chilli, okra and other vegetable crops. Increase frequency of irrigation as per environment temperature.
- Irrigation management is required in mango, lemon and other fruit trees. Preparation should be done for new fruit gardens and digging the pits at a specified distance can be carried out. In banana, papaya and other crops increase the amount of water in the drip as per evapo-transpiration rate.
- Animal husbandry: Farmers are advised to cover animal and poultry sheds with wet gunny bags. If animal suffering from heat stroke it is advised to move the animal in shady place and whole body mop should be done frequently with wet cloth. To avoid dehydration, feed solution of 4-5 teaspoon sugar and one fourth amount of salt every half an hours. If possible arrange the fogger in animal shed and sprinkling should be done at an interval of every four to five hours. Animals must be fed 50-60 grams of salt mixed with water.

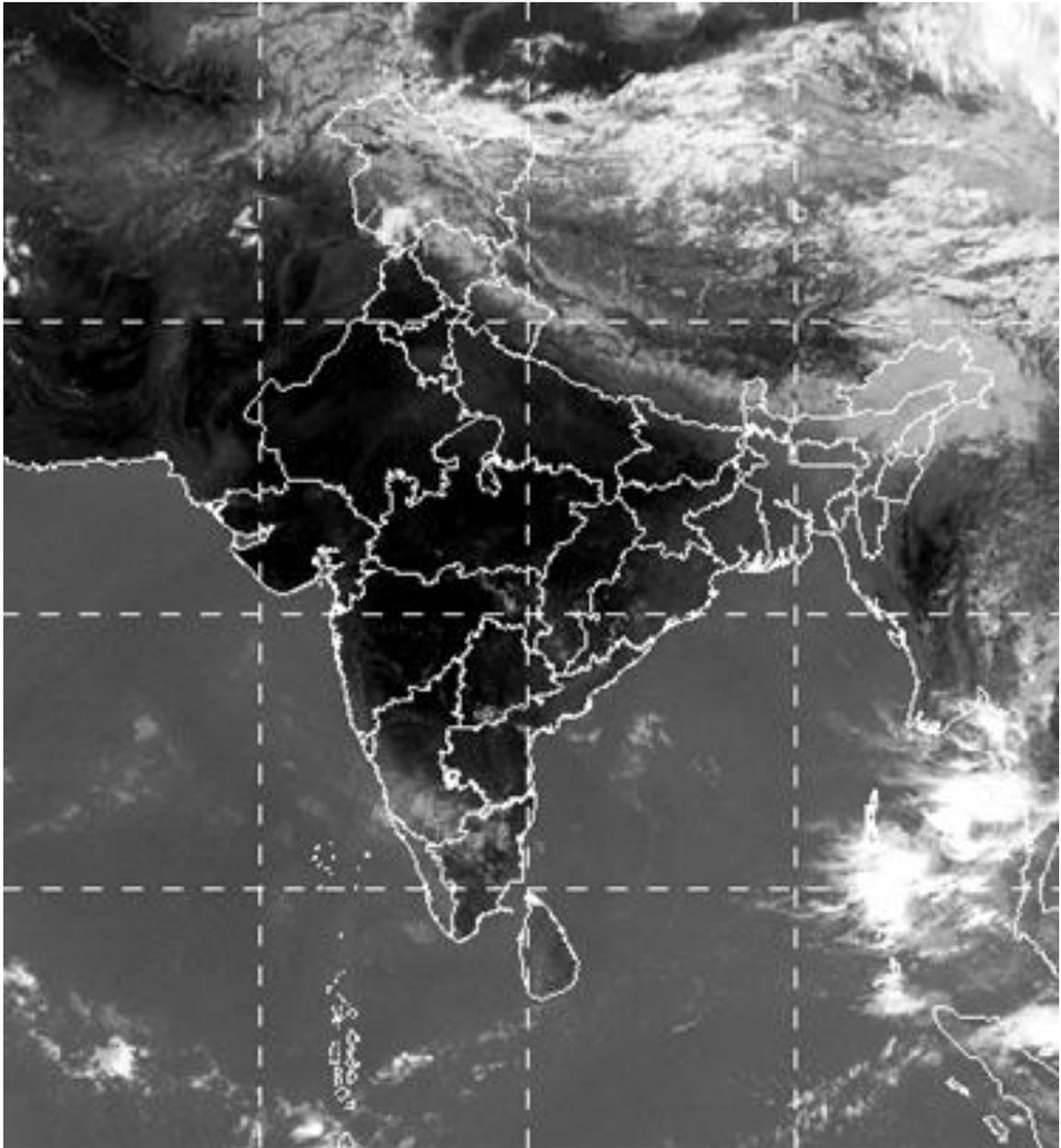


Figure: 1. Latest available satellite picture as on 07 May 2019 at 0230 Hrs (IST).

(Source: IMD).

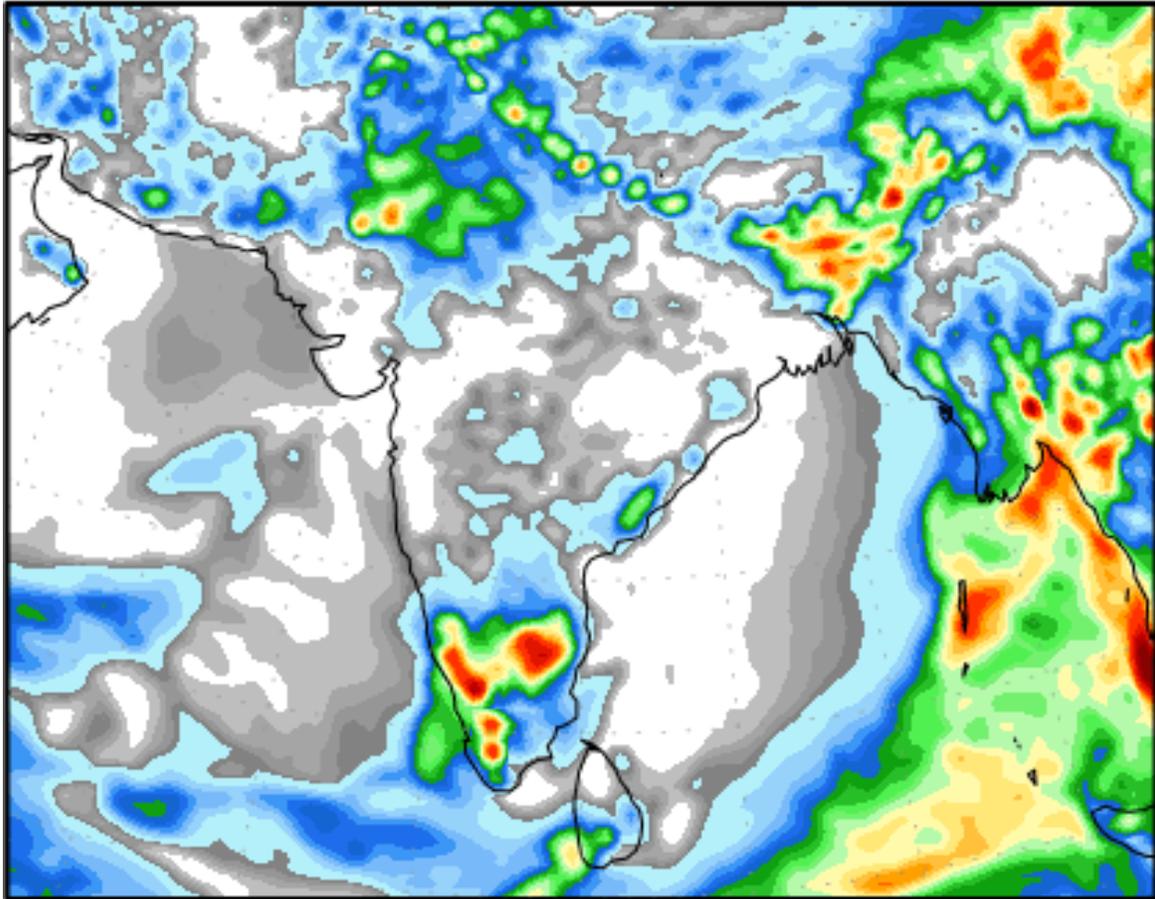


Figure: 2. Precipitation forecast for 07 to 14 May 2019 (Source: NOAA NCEP).