

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 04 June 2019

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Northern Limit of Monsoon (NLM) passes through Lat. 6°N/Long. 60°E, Lat. 6°N/Long. 70°E, Lat. 6°N/Long. 81°E, Lat. 10°N/Long. 86°E, Lat. 13°N/Long. 89°E and Lat. 17°N/Long. 95°E.
- Cross equatorial flow over southern parts of South Arabian Sea (to the south of 10° N) and over the Bay of Bengal is likely to increase gradually favoring further advance of southwest monsoon over some more parts of South Arabian sea, Maldives-Comorin area, southwest, southeast and central Bay of Bengal during next 24 hours.
- An east-west shear zone at 3.1 km above mean sea level is very likely to develop across extreme south peninsula from tomorrow onwards leading to favourable conditions for onset of Southwest Monsoon over Kerala during the subsequent 72 hours.
- Heat wave to severe heat wave conditions very likely to continue to prevail over Rajasthan, Madhya Pradesh and Vidarbha during next 48 hours and decrease in intensity thereafter. Heat wave conditions very likely to continue to prevail over south Haryana during next 3 days.
- Fairly widespread rainfall with isolated heavy to very heavy falls very likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during next 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 Jammu & Kashmir, Assam & Meghalaya, Himachal Pradesh and Nagaland, Manipur, Mizoram & Tripura; at many places over Uttarakhand and Arunachal Pradesh; at a few places over Kerala and Andaman & Nicobar Islands and at isolated places over Jharkhand, West Bengal &

Sikkim, Madhya Maharashtra, Marathwada, Vidarbha, Telangana, Coastal Andhra Pradesh, North Interior Karnataka and Tamilnadu & Puducherry. Thunderstorm observed (from 1730 hours IST of yesterday to 0830 hours IST of today): at a few places over Jammu & Kashmir; at isolated places over Uttarakhand, Himachal Pradesh, Jharkhand, North Interior Karnataka, Coastal Andhra Pradesh, Telangana, south Madhya Maharashtra and Kerala.

- Yesterday's Severe Heat Wave conditions observed in many parts over West Rajasthan and at isolated pockets over Madhya Pradesh & East Rajasthan. Heat wave conditions observed at many places over Vidarbha and East Rajasthan; over some parts of Madhya Pradesh and at isolated pockets over West Rajasthan.
- Maximum temperature departures as on 03.06.2019: Maximum temperatures were markedly above normal (5.1°C or more) at most places over West Rajasthan; at many places over East Rajasthan; at a few places over West Madhya Pradesh; at isolated places over East Madhya Pradesh; appreciably above normal (3.1°C to 5.0°C) at many places over Marathwada and Vidarbha; at isolated places over Telangana and South Interior Karnataka; above normal (1.6°C to 3.0°C) at many places over Himachal Pradesh and Madhya Maharashtra; at a few places over Arunachal Pradesh, Assam & Meghalaya, Jammu & Kashmir, Haryana, Chandigarh & Delhi, Gujarat Region, Konkan & Goa Kerala and Tamilnadu, Puducherry & Karaikal. They were markedly below normal (-5.0°C or less) at isolated places over Odisha and Chhattisgarh; appreciably below normal (-3.1°C to -5.0°C) at many places over Bihar; at a few places over Jharkhand and Nagaland, Manipur, Mizoram & Tripura; below normal (-1.6°C to -3.0°C) at many places over East Uttar Pradesh; at a few places over West Uttar Pradesh, Gangetic West Bengal, Coastal Andhra Pradesh, Rayalaseema and South Interior Karnataka and near normal over rest parts of the country.
- Yesterday, the highest maximum temperature of 50.3°C was recorded at Churu (West Rajasthan).
- Minimum temperature departures as on 04.06.2019: Minimum temperatures are markedly above normal (5.1°C or more) at isolated places over Rajasthan and Madhya Pradesh; above normal (1.6°C to 3.0°C) at a few places over Madhya Maharashtra, Vidarbha and Tamilnadu & Puducherry and at isolated place over Konkan & Goa, Gujarat State and Kerala. They are appreciably below normal (-3.1°C to -5.0°C) at isolated places over Coastal Andhra Pradesh and Telangana and below normal (-1.6°C to -3.0°C) at isolated places over Jammu & Kashmir, Himachal Pradesh, Assam & Meghalaya, Gangetic West Bengal, Odisha and Jharkhand and near normal over rest parts of the country.

Weather Warning during next 5 days (IMD)

- 04 June (Day 1): Thunderstorm accompanied with lighting and gusty winds (40-50 kmph) at isolated places very likely over Rayalaseema and Tamilnadu & Puducherry; with gusty winds (30-40 kmph) at isolated places over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Jharkhand, Gangetic West Bengal, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh, Telangana, Vidarbha, Chhattisgarh, Interior Karnataka and Kerala. Thunderstorm/Duststorm accompanied with gusty winds (30-40 kmph) at isolated places very likely over Haryana, Chandigarh & Delhi, Punjab, West Uttar Pradesh and West Rajasthan. Heavy to Very heavy rainfall at isolated places very likely over Nagaland, Manipur, Mizoram & Tripura and Assam & Meghalaya. Heat Wave conditions in most parts with severe heat wave in some pockets very likely over West Rajasthan and with severe heat wave at isolated pockets very likely over East Rajasthan; in many parts with severe heat wave in isolated pockets over Madhya Pradesh and Vidarbha. Heat Wave conditions in isolated pockets over South Haryana, Marathwada and Telangana.
- 05 Jun (Day 2): Thunderstorm accompanied with lighting and gusty winds (40-50 kmph) at isolated places very likely over Rayalaseema and Tamilnadu & Puducherry; with gusty winds (30-40 kmph) at isolated places over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Jharkhand, Gangetic West Bengal, Odisha, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh, Telangana, Vidarbha, Chhattisgarh, Interior Karnataka and Kerala. Thunderstorm/Duststorm accompanied with gusty winds (30-40 kmph) at isolated places very likely over Haryana, Chandigarh & Delhi, Punjab and West Uttar Pradesh. Heavy rainfall at isolated places very likely over Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura and Assam & Meghalaya. Heat Wave conditions in many parts with severe heat wave in isolated pockets very likely over Rajasthan, Madhya Pradesh and Vidarbha. Heat Wave conditions in isolated pockets over South Haryana, Marathwada and Telangana.
- 06 Jun (Day 3): Thunderstorm accompanied with lighting and gusty winds (40-50 kmph) at isolated places very likely over Rayalaseema, Kerala and Tamilnadu & Puducherry; with gusty winds (30-40 kmph) at isolated places over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Bihar, Jharkhand, Gangetic West Bengal, Odisha, Coastal Andhra Pradesh, Chhattisgarh and South Interior Karnataka. Thunderstorm/Duststorm accompanied with gusty winds (30-40 kmph) at isolated places very likely over Haryana, Chandigarh & Delhi, Punjab and West Uttar Pradesh. Heavy rainfall at isolated places very likely over Gangetic West Bengal, Odisha, Nagaland, Manipur, Mizoram & Tripura and Assam & Meghalaya. Heat Wave conditions in many parts with severe heat wave at isolated pockets very likely

over East Rajasthan and Madhya Pradesh; in some parts with severe heat wave in isolated pockets very likely over West Rajasthan. Heat Wave conditions in many parts likely over Vidarbha and at isolated pockets over South Haryana, Marathwada, Chhattisgarh and Telangana.

- 07 Jun (Day 4): Thunderstorm accompanied with lighting and gusty winds (40-50 kmph) at isolated places very likely over North Interior Karnataka and Kerala & Mahe; with gusty winds (30-40 kmph) at isolated places over Bihar, Jharkhand, West Bengal & Sikkim, Coastal Andhra Pradesh and Chhattisgarh and thunderstorm accompanied with lighting at isolated places over Odisha. Heavy to Very heavy rainfall at isolated places likely over Nagaland, Manipur, Mizoram & Tripura and Assam & Meghalaya. Heavy rainfall at isolated places likely over Kerala, South Interior Karnataka and Odisha. Heat Wave conditions in many parts likely over Vidarbha; in some parts over Madhya Pradesh and Rajasthan and in isolated pockets over Chhattisgarh, Marathwada and Telangana.
- 08 Jun (Day 5): Thunderstorm accompanied with lighting and gusty winds (40-50 kmph) at isolated places very likely over North Interior Karnataka; with gusty winds (30-40 kmph) at isolated places over Bihar, Jharkhand, West Bengal & Sikkim, Coastal Andhra Pradesh and Chhattisgarh and thunderstorm accompanied with lighting at isolated places over Odisha. Heavy to Very heavy rainfall at isolated places likely over Nagaland, Manipur, Mizoram & Tripura and Assam & Meghalaya. Heavy rainfall at isolated places likely over Arunachal Pradesh, Odisha, Kerala, South Interior Karnataka and Lakshadweep. Heat Wave conditions in many parts likely over Vidarbha; in some parts over Madhya Pradesh and Rajasthan and in isolated pockets over Chhattisgarh, Marathwada and Telangana.
- The weather outlook for the period of seven days *i.e* 04 to 11 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, Himachal Pradesh, Uttarakhand, West Bengal & Sikkim, Jharkhand, Vidarbha, Marathwada, Madhya Maharashtra, Telangana, Coastal Andhra Pradesh, North Interior Karnataka, Kerala, Tamilnadu & Puducherry, Andaman & Nicobar Islands, and North Eastern States. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Uttarakhand

Weather condition:

Mainly clear weather prevailed in Uttarakhand state during past few days. Maximum temperature is 29.6°C and minimum temperature is 16.1°C.

Contingency measure:

- Harvested of mature crops kept in safer place. Hoeing and weeding in Barnyard millet, pigeon pea crops (Mid to high altitude) should be done.
- Apply bio-fungicide in field during inter-culture operations to minimize the pathogen attack.
- Prepare nursery of paddy(Irrigated). In potato crop, earthing up and mulching should be done. Removal of weeds. Apply bio-fungicide.

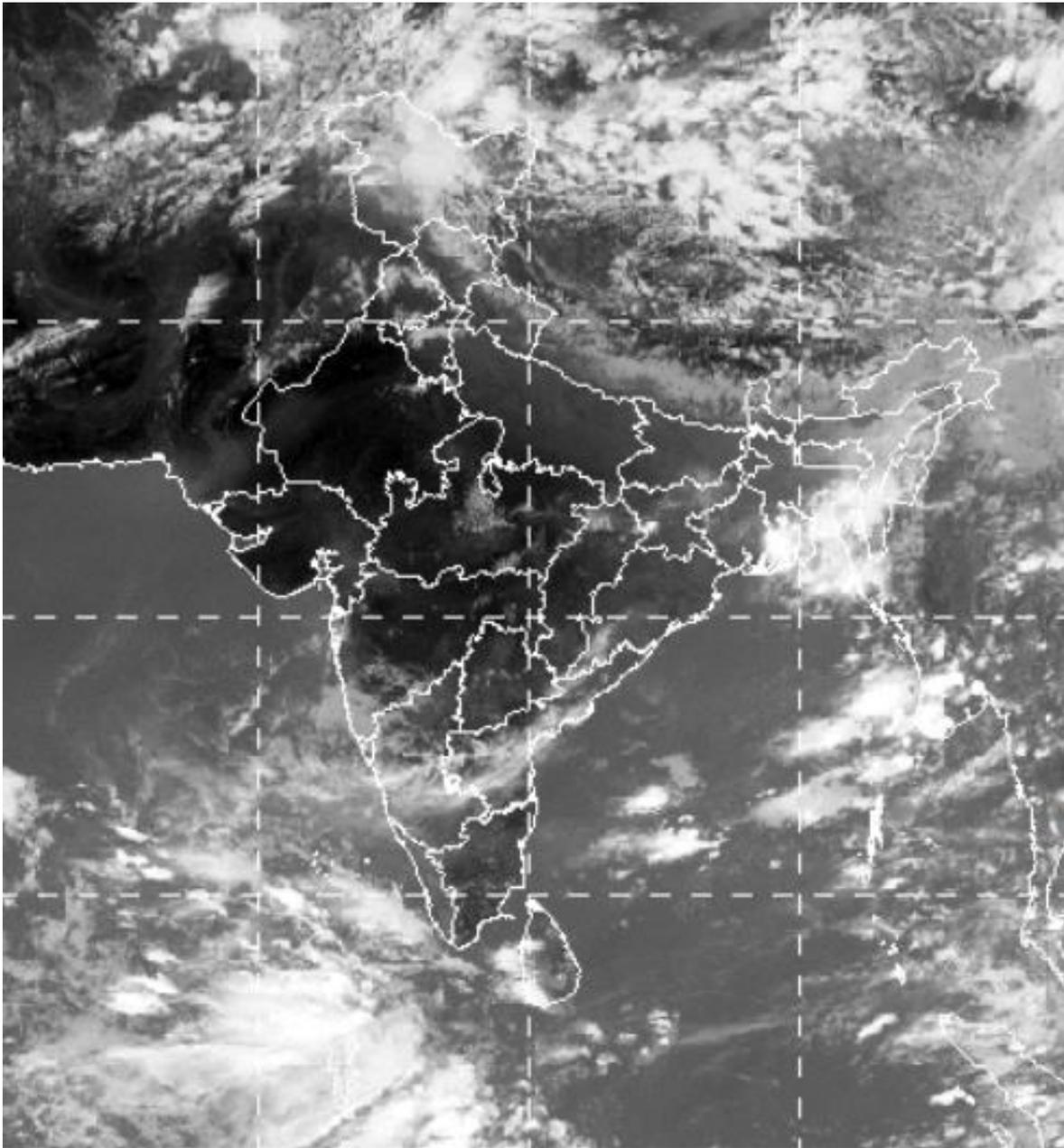


Figure: 1. Latest available satellite picture as on 04 June 2019 at 0230 Hrs (IST).

(Source: IMD).

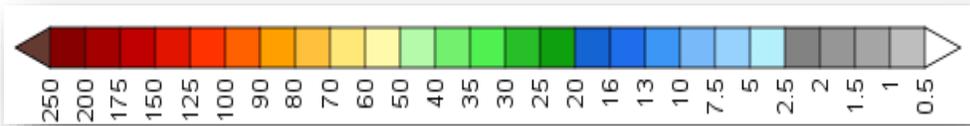
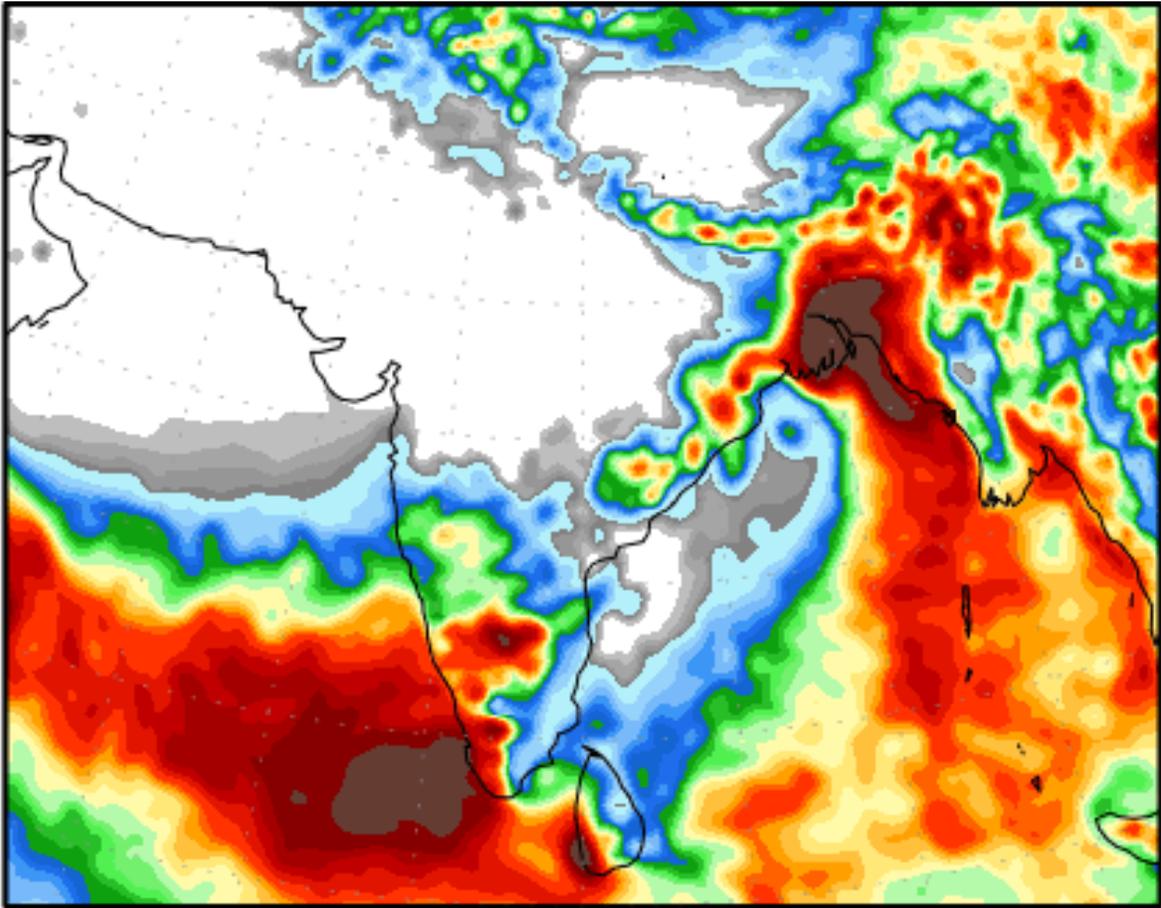


Figure: 2. Precipitation forecast for 04 to 11 June 2019 (Source: NOAA NCEP).