

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 03 June 2019

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Northern Limit of Monsoon (NLM) continues to pass through Lat. 5°N/Long. 75°E, Lat. 5°N/Long. 80°E, Lat. 10°N/Long. 87°E, Lat. 13°N/Long. 90°E and Lat. 16°N/Long. 94.5°E. Conditions are becoming favourable for further advance of Southwest Monsoon into extreme southern parts of Arabian Sea, some more parts of Maldiva-Comorin Area, southwest, southeast and east 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 05th June onwards leading to favourable conditions for onset of Southwest Monsoon over Kerala subsequently.
- A cyclonic circulation in lower levels lies over Lakshadweep area & adjoining southeast Arabian Sea, it is likely to move westwards without any intensification during next 2 days. Under its influence, cross equatorial flow over southern parts of South Arabian Sea (to the south of 10° N) is likely to increase gradually favoring advance of southwest monsoon over southern parts of Arabian sea during next 48 hours.
- Heat wave to severe heat wave conditions very likely to continue to prevail over Rajasthan & Madhya Pradesh during next 24 hours and decrease in intensity thereafter. Heat wave conditions over Vidarbha very likely to continue to prevail during next 5 days and over Punjab, Haryana, Chandigarh & Delhi and south Uttar Pradesh during next 2 days.
- Fairly widespread rainfall with isolated heavy falls very likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura 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 to 1730 hours IST of yesterday): at many places over Sub-Himalayan West Bengal & Sikkim; at a few

places over Gangetic West Bengal and at isolated places over Madhya Pradesh, Chhattisgarh, Odisha, Tamilnadu, Puducherry & Karaikal, Telangana, Bihar and Andaman & Nicobar Islands. Thunderstorm observed (from 1730 hours IST of yesterday to 0530 hours IST of today): at a few places over Jharkhand and Odisha and at isolated places over East Uttar Pradesh, Arunachal Pradesh, Tripura, West Madhya Pradesh, Chhattisgarh, Jharkhand, Odisha, Gangetic West Bengal, Coastal & Interior Karnataka, Kerala and Rayalaseema.

- Yesterday, severe Heat Wave conditions observed in most parts over West Rajasthan. Heat wave conditions in many parts with severe Heat wave in isolated pockets over East Madhya Pradesh and Vidarbha. Heat wave conditions to severe heat wave in isolated pockets over south Uttar Pradesh. Heat Wave conditions observed in some parts over East Rajasthan, West Madhya Pradesh, Haryana and Marathwada and in isolated pockets over Gujarat state and Telangana.
- Maximum temperature departures as on 02.06.2019: Maximum temperatures were markedly above normal (5.1°C or more) at most places over West Rajasthan; at a few places over East Rajasthan and at isolated places over Madhya Maharashtra and Marathwada; appreciably above normal (3.1°C to 5.0°C) at most places over Madhya Pradesh and Vidarbha; at many places over Telangana; at a few places over Konkan & Goa, Coastal & North Interior Karnataka, Kerala & Mahe, Rayalaseema, Gujarat and Andaman & Nicobar Islands; above normal (1.6°C to 3.0°C) at most places over Punjab, Himachal Pradesh, Jammu & Kashmir and Haryana, Chandigarh & Delhi; at many places over Tamilnadu, Puducherry & Karaikal. They were markedly below normal (-5.0°C or less) at a few places over Bihar and Sub-Himalayan West Bengal & Sikkim and at isolated places over Gangetic West Bengal and near normal over rest parts of the country.
- Yesterday, the highest maximum temperature of 48.9°C was recorded at Churu (West Rajasthan).
- Minimum temperature departures as on 02.06.2019: Minimum temperatures were markedly above normal (5.1°C or more) at isolated places over West Rajasthan; appreciably above normal (3.1°C to 5.0°C) at many places over East Rajasthan and Haryana. Chandigarh & Delhi; at a few places over West Uttar Pradesh and at isolated places over Madhya Pradesh, Vidarbha and Kerala; above normal (1.6°C to 3.0°C) at most places over Coastal Karnataka, Punjab; at many places over Marathawada, Rayalaseema, Coastal
- Andhra Pradesh, Gangetic West Bengal and Uttarakhand; at a few places over South Interior Karnataka, Tamilnadu & Puducherry and Jammu & Kashmir and at isolated place over Gujarat state, Konkan & Goa, Madhya Maharashtra, Telangana, East Uttar Pradesh, Andaman & Nicobar and Odisha. They were below normal (-1.6°C to

-3.0°C) at a few places over Bihar and Nagaland, Manipur, Mizoram & Tripura and near normal over rest parts of the country.

Weather Warning during next 5 days (IMD)

- 03 June (Day 1): Thunderstorm accompanied with squall & lightning (50-60 kmph) at isolated places very likely over Uttarakhand. Thunderstorm & lightning accompanied with gusty winds (40-50 kmph) at isolated places very likely over South Interior Karnataka; with gusty winds (30-40 kmph) at isolated places over Jammu & Kashmir, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Vidarbha, Chhattisgarh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Tamilnadu, Puducherry & Karaikal and Rayalaseema. Thunderstorm/Duststorm accompanied with gusty winds (30-40 kmph) at isolated places very likely over Haryana, Chandigarh & Delhi and Uttar Pradesh. Heavy to very heavy rainfall at isolated places very likely over Nagaland, Manipur, Mizoram & Tripura and heavy at isolated places very likely over Assam & Meghalaya. Heat Wave conditions in most parts with severe heat wave in isolated pockets very likely over West Rajasthan. Heat Wave conditions in some parts with severe heat wave in isolated pockets very likely over Madhya Pradesh. Heat wave conditions in some parts over East Rajasthan and in isolated pockets over Jammu & Kashmir, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Saurashtra & Kutch, Vidarbha and Marathwada. Strong wind, speed reaching 35-45 kmph, very likely to prevail over southwest Bay of Bengal and Gulf of Mannar. Fishermen are advised not to venture into this area.
- 04 June (Day 2): Thunderstorm & lightning accompanied with gusty winds (40-50 kmph) at isolated places very likely over Himachal Pradesh, Telangana and North Interior Karnataka; with gusty winds (30-40 kmph) at isolated places over Jammu & Kashmir, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Vidarbha, Chhattisgarh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm/Duststorm accompanied with gusty winds (30-40 kmph) at isolated places very likely over Punjab, Haryana, Chandigarh & Delhi and Uttar Pradesh. Heavy rainfall at isolated places very likely over Nagaland, Manipur, Mizoram & Tripura and Assam & Meghalaya. Heat wave conditions in some parts over Rajasthan and in isolated pockets over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Madhya Pradesh, Vidarbha.
- 05 Jun (Day 3): Thunderstorm & lightning accompanied with gusty winds (40-50 kmph) at isolated places likely over Himachal Pradesh, Telangana, Kerala & Mahe and North Interior Karnataka; with gusty winds (30-40 kmph) at isolated places over Jammu & Kashmir, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Odisha and Lakshadweep. Thunderstorm/Duststorm accompanied with gusty winds (30-40 kmph) at isolated places likely over Punjab, Haryana, Chandigarh &

Delhi and Uttar Pradesh. Heavy rainfall at isolated places likely over Kerala and Gangetic West Bengal. Heat Wave conditions in some parts with severe heat wave in isolated pockets likely over Vidarbha; Heat wave conditions in isolated pockets over Rajasthan, Madhya Pradesh, Coastal Andhra Pradesh & Yanam and Telangana.

- 06 Jun (Day 4): Thunderstorm accompanied with squall & lightning (50-60 kmph) at isolated places likely over Gangetic West Bengal. Thunderstorm & lightning accompanied with gusty winds (40-50 kmph) at isolated places very likely over Himachal Pradesh, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Interior Karnataka; with gusty winds (30-40 kmph) at isolated places over Jammu & Kashmir, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Odisha and Lakshadweep. Thunderstorm/Duststorm accompanied with gusty winds (30-40 kmph) at isolated places likely over Punjab and Haryana, Chandigarh & Delhi. Heavy rainfall at isolated places likely over Gangetic West Bengal, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Lakshadweep and Kerala & Mahe. Heat Wave conditions in some parts with severe heat wave in isolated pockets likely over Vidarbha; Heat wave conditions in isolated pockets over Rajasthan, Madhya Pradesh, Coastal Andhra Pradesh & Yanam and Telangana.
- 07 Jun (Day 5): Thunderstorm accompanied with squall & lightning (50-60 kmph) at isolated places likely over Gangetic West Bengal. Thunderstorm & lightning accompanied with gusty winds (40-50 kmph) at isolated places very likely over Himachal Pradesh, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Interior Karnataka; with gusty winds (30-40 kmph) at isolated places over Jammu & Kashmir, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Odisha and Lakshadweep. Thunderstorm/Duststorm accompanied with gusty winds (30-40 kmph) at isolated places likely over Punjab and Haryana, Chandigarh & Delhi. Heavy rainfall at isolated places likely over Gangetic West Bengal, Odisha, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Lakshadweep and Kerala & Mahe. Heat Wave conditions in some parts with severe heat wave in isolated pockets likely over Vidarbha; Heat wave conditions in isolated pockets over Rajasthan, Madhya Pradesh, Coastal Andhra Pradesh & Yanam and Telangana.
- The weather outlook for the period of seven days *i.e* 03 to 10 June 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, Gangetic West Bengal, East Uttar Pradesh, Bihar, Jharkhand, Madhya Pradesh, Chhattisgarh, Odisha, Telangana, Rayalaseema, Coastal & Interior Karnataka, Tamilnadu, Puducherry, Karaikal, Kerala, Tamilnadu & Puducherry, Andaman & Nicobar Islands and North Eastern States. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Tamil Nadu

Weather condition:

Dry weather prevailed in Tamil Nadu state during past few days. Maximum temperature is 39.9°C (normal 38.6°C) and minimum temperature is 26.9°C (normal 24.8°C).

Contingency measure:

- Crop residue recycling: In order to improve the soil quality, recycle the residues of harvested crops of maize, sorghum and pulses. Use rotovator or rotoslasher for cutting the residues into small pieces and incorporate them into the soil.
- Soil and water conservation: In order to conserve the rainfall expected in the coming days do summer ploughing in drylands.
- Rice - Nursery and transplanting stage - In the prevailing weather condition sucking pest - Thrips occurrence is noticed. Symptoms - Leaf shows discoloration and rolling. Yellow (or) silvery streaks on the leaves of young seedlings. Terminal rolling and drying of leaves from tip to base. Spray Azadirachtin 0.15% W/W @ 1500-2500 g/ha. (or) Thiamethoxam 25% WG @ 100 g/ha. Cotton - Boll development stage - In the prevailing weather condition sucking pest - Leaf hopper occurrence is noticed. ETL: 50 nymphs or adults/50 leaves. Apply carbofuran 3% CG 25 kg/ha. spray Imidacloprid 200 SL 100 ml/ha (or) Azadirachtin 0.03% WSP 500-1000 g/ha. In the prevailing weather condition Fruit borer: *Helicoverpa* occurrence is noticed. ETL: One egg or one larva/plant. Spray Quinalphos 25 EC @ 2.0 l/ha.
- Sorghum: Flowering stage - In the prevailing weather condition chance of Fall army worm *Spodoptera* occurrence. Spray Emamectin benzoate 5 SG (Chloride channel activator) 4g / 10 lit. (or) Azadirachtin 1 EC (10000 ppm) 20 ml / 10 lit. In the prevailing weather condition Shootfly occurrence is noticed in sorghum. ETL: 1 egg/plant in 10% of plants in the first two weeks of sowing or 10% dead hearts. Spray Dimethoate 30 EC 500 ml/ha (or) Neem Seed Kernel extract 5%.

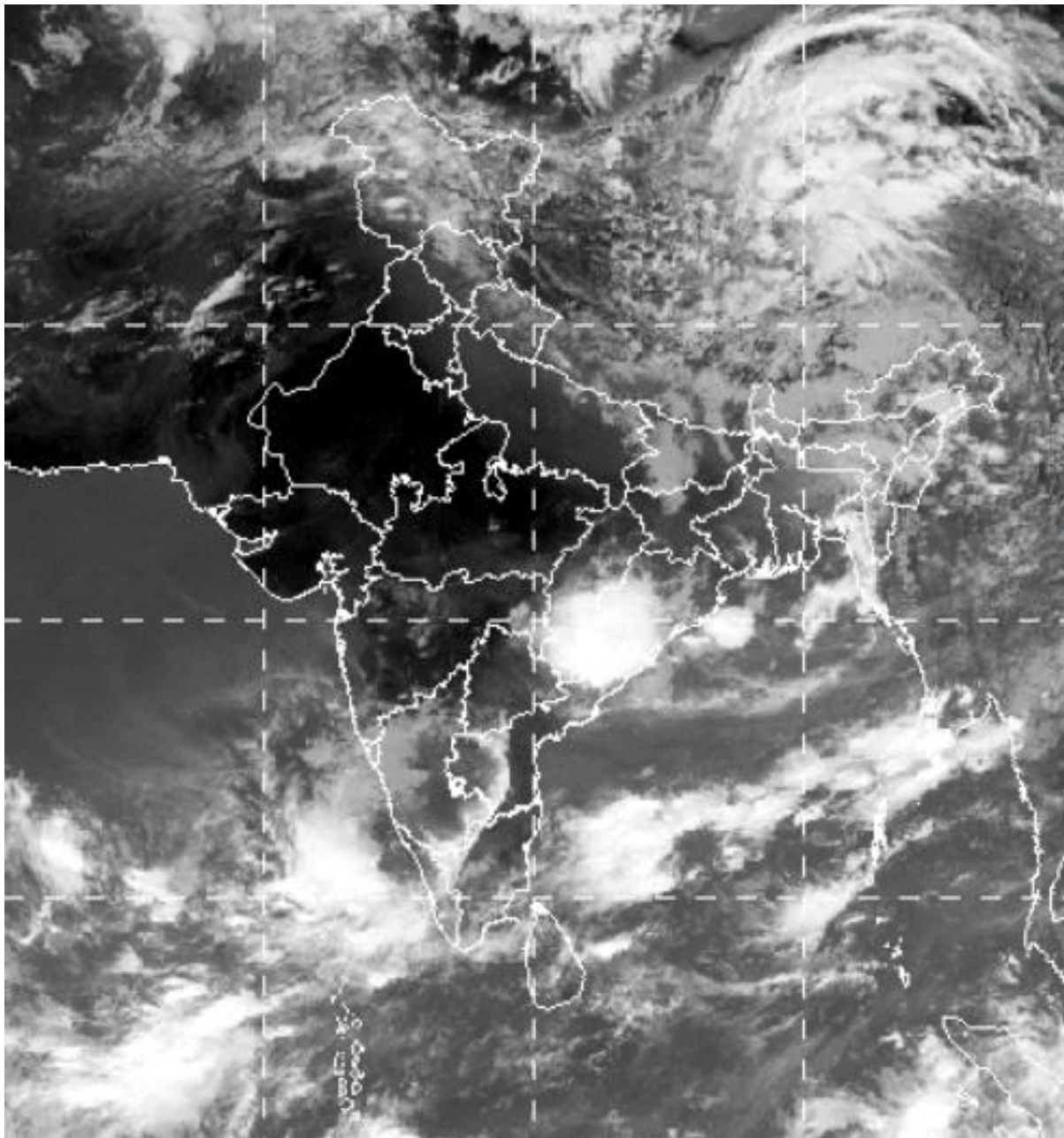


Figure: 1. Latest available satellite picture as on 03 June 2019 at 0230 Hrs (IST).

(Source: IMD).

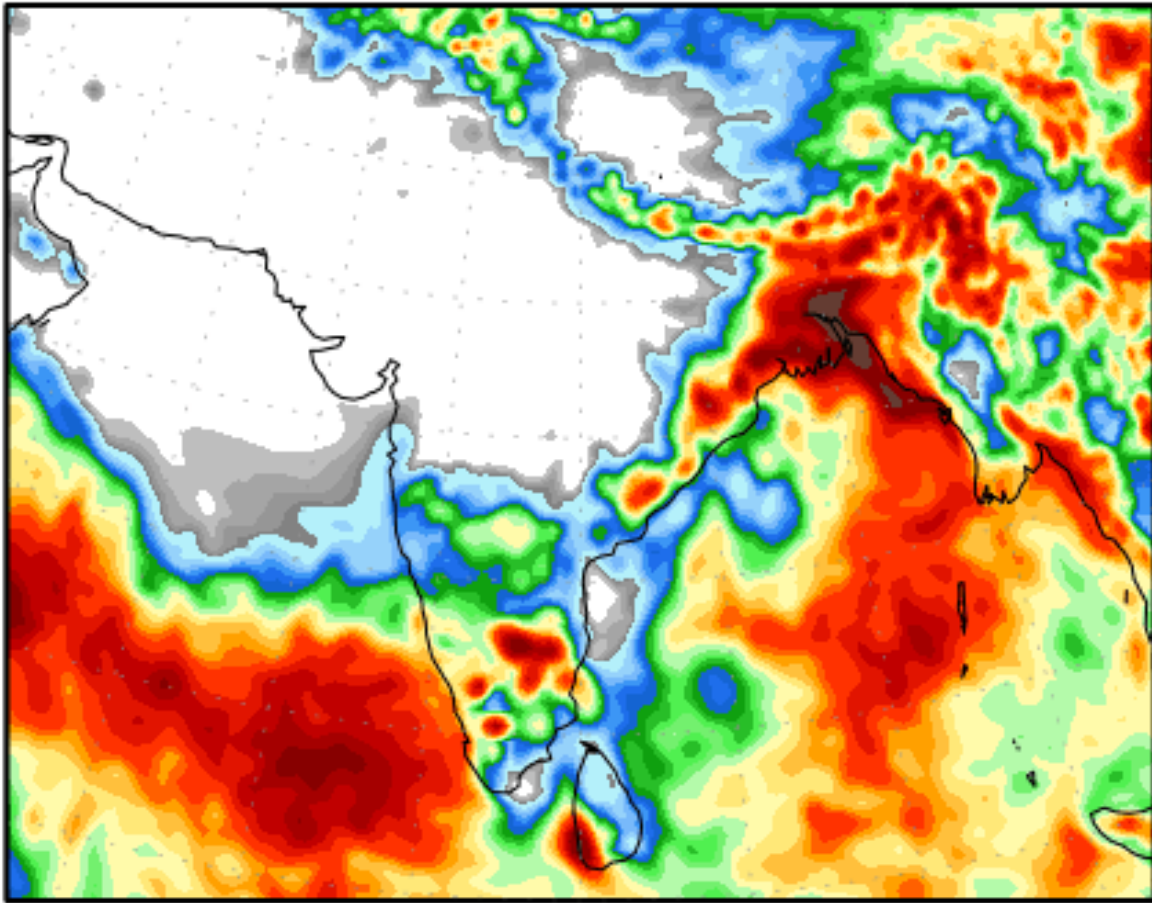


Figure: 2. Precipitation forecast for 03 to 10 June 2019 (Source: NOAA NCEP).