

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 06 June 2019

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Northern Limit of Monsoon (NLM) continues to pass through Lat. 7°N/Long. 60°E, Lat. 7°N/Long. 70°E, Katunayake (Lat. 7°N/Long. 80° E), Lat. 11°N/Long. 87°E, Lat. 13°N/Long. 89°E and Lat. 17°N/Long. 95°E.
- The east-west shear zone now runs roughly along Lat. 8°N between 3.1 & 3.6 km above mean sea level across Lakshadweep-Maldives-Comorin area. It is very likely to shift northwards gradually. In addition, an off shore trough is very likely to develop around 8th June, off Maharashtra coast to Kerala coast. In association with these favourable conditions, Southwest Monsoon is very likely to set in over over Kerala around 8th June.
- A low pressure area is very likely to form over southeast and adjoining east central Arabian Sea off Kerala-Karnataka coast around 9th June. It is likely to move north-northwestwards and intensify gradually.
- Conditions are likely to become favourable for advance of southwest monsoon into some parts of Northeastern states during next 2-3 days.
- Heat wave to severe heat wave conditions very likely to prevail over Rajasthan, Madhya Pradesh and Vidarbha during next 4-5 days.
- Fairly widespread rainfall with isolated heavy to very 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 of yesterday to 0830 hours IST of today): at most places over Coastal Karnataka, Kerala, Lakshadweep; at many places over Jammu & Kashmir, Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal and South Interior Karnataka; at a few places over Assam & Meghalaya, Odisha, Tamilnadu & Puducherry and Andaman & Nicobar and at

isolated places over Punjab, Himachal Pradesh, Sub- Himalayan West Bengal & Sikkim, Coastal Andhra Pradesh, Marathawada, Madhya Maharashtra, North Interior Karnataka and Rayalaseema. Thunderstorm observed (from 0830 hrs IST of yesterday to 0830 hours IST of today): at isolated places over Himachal Pradesh, Marathawada, Madhya Maharashtra and Kerala.

- Yesterday, Heat wave conditions were observed in many parts with Severe Heat Wave in isolated pockets over Madhya Pradesh; in some parts with Severe Heat Wave in isolated pockets over West Rajasthan and Vidarbha. Heat Wave conditions were observed in many parts over Madhya Maharashtra and in isolated pockets over East Rajasthan, Marathawada, Chhattisgarh and Odisha.
- Maximum temperature departures as on 05.06.2019: Maximum temperatures were markedly above normal (5.1°C or more) at many places over East Madhya Pradesh, Vidarbha and Madhya Maharashtra; at a few places over West Madhya Pradesh and Coastal Karnataka and at isolated places over East Rajasthan and Kerala; appreciably above normal (3.1°C to 5.0°C) at most places over North Interior Karnataka; at many places over West Rajasthan and Telangana; at a few places over Himachal Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, Rayalaseema and Marathawada and at isolated places over Punjab, Saurashtra & Kutch, Konkan & Goa, Tamilnadu & Puducherry, Coastal Andhra Pradesh and Andaman & Nicobar; above normal (1.6°C to 3.0°C) at many places over South Interior Karnataka; at many Places over Chhattisgarh; at a few places over Jharkhand, Gujarat Region and Andhra Pradesh and at isolated places over Odisha, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. They were markedly below normal (-5.0°C or less) at isolated places over Gangetic West Bengal; appreciably below normal (-3.1°C to -5.0°C) at a few places over Jammu & Kashmir and near normal over rest parts of the country.
- Yesterday, the highest maximum temperature of 47.9°C was recorded at Nowgong (East Madhya Pradesh).
- Minimum temperature departures as on 06.06.2019: Minimum temperatures are markedly above normal (5.1°C or more) at isolated places over East Rajasthan, West Madhya Pradesh and Telangana; appreciably above normal (3.1°C to 5.0°C) at many places over West Rajasthan and Vidarbha; at a few places over East Madhya Pradesh, East Uttar Pradesh and Chhattisgarh and at isolated places over Uttarakhand and West Uttar Pradesh; above normal (1.6°C to 3.0° C) at most places over Haryana, Chandigarh & Delhi and Madhya Maharashtra; at many places over Konkan & Goa; at a few places over Punjab, Sub- Himalayan West Bengal & Sikkim, Marathawada and Rayalaseema and at isolated places over Assam & Meghalaya, Gujarat States, Coastal Andhra Pradesh and Tamilnadu & Puducherry. They are appreciably below normal (-3.1°C to -5.0°C) at isolated places over Odisha and Gangetic West Bengal and below normal (-1.6°C to -3.0°C) at a few places over

Jammu & Kashmir and at isolated places over Coastal Karnataka and near normal over rest parts of the country.

Weather Warning during next 5 days (IMD)

- 06 June (Day 1): Thunder squall accompanied with Hail, lighting and gusty winds (50-60 kmph) very likely at isolated places over Uttarakhand; Thunderstorm accompanied with lighting and gusty winds (40-50 kmph) at isolated places very likely over Madhya Maharashtra and Tamilnadu, Puducherry & Karaikal; with gusty winds (30-40 kmph) at isolated places over Jammu & Kashmir, Himachal Pradesh, Vidarbha, Chhattisgarh, Nagaland, Manipur, Mizoram & Tripura, Marathawada, Telangana, Lakshadweep, Rayalaseema, Interior Karnataka, Coastal Andhra Pradesh & Yanam and Kerala & Mahe. Thunderstorm/Duststorm accompanied with gusty winds (30-40 kmph) at isolated places very likely over Haryana, Chandigarh & Delhi, Punjab, East Rajasthan and West Uttar Pradesh; Thunderstorm accompanied with lighting at isolated places over Jharkhand, West Bengal & Sikkim, Odisha and Assam & Meghalaya. Heavy rainfall at isolated places very likely over Kerala, Tamilnadu & Puducherry, Karnataka, Konkan & Goa, 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 Madhya Pradesh and Vidarbha; in some parts with severe heat wave in isolated pockets very likely over South Uttar Pradesh and West Rajasthan. Heat wave to severe heat wave conditions in isolated pockets over East Rajasthan. Heat Wave conditions in isolated pockets over Punjab, South Haryana, Marathawada, Telangana and Chhattisgarh. Squally weather with winds, speed reaching 35-45 kmph, likely to prevail over southwest Arabian Sea. Squally weather likely to prevail over East central Arabian off Karnataka- Goa-south Maharashtra coasts. Fishermen are advised not to venture into these areas.
- 07 Jun (Day 2): Thunderstorm accompanied with lighting and gusty winds (40-50 kmph) at isolated places very likely over Rayalaseema and Tamilnadu, Puducherry & Karaikal; with gusty winds (30-40 kmph) at isolated places over Vidarbha, Chhattisgarh, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Telangana, Interior Karnataka, Kerala & Mahe and Lakshadweep; and Thunderstorm accompanied with lighting at isolated places over Jharkhand, Bihar, West Bengal & Sikkim, Odisha and Assam & Meghalaya. Heavy to Very heavy rainfall at isolated places likely over Nagaland, Manipur, Mizoram & Tripura. Heavy rainfall at isolated places likely over Assam & Meghalaya, Kerala and Gangetic West Bengal. Heat Wave conditions in many parts with severe heat wave in isolated pockets very likely over Madhya Pradesh and Vidarbha; in some parts with severe heat wave in isolated pockets very likely over South Uttar Pradesh and Rajasthan. Heat Wave conditions in isolated pockets over South Haryana, Punjab, Chhattisgarh, Marathawada and Telangana. Squally weather with winds, speed

reaching 35-45 kmph, likely to prevail over southwest Arabian Sea. Fishermen are advised not to venture into these areas.

- 08 Jun (Day 3): Thunderstorm accompanied with lighting and gusty winds (40-50 kmph) at isolated places likely over Rayalaseema; with gusty winds (30-40 kmph) at isolated places over Vidarbha, Chhattisgarh and Kerala and Thunderstorm accompanied with lighting at isolated places over Jharkhand, Bihar, West Bengal & Sikkim, Odisha and Assam & Meghalaya. Heavy to Very heavy rainfall at isolated places likely over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, South Interior Karnataka and Kerala & Mahe. Heavy rainfall at isolated places likely over Tamilnadu & Puducherry, Lakshadweep, Rayalaseema and Odisha. Heat Wave conditions in many parts with severe heat wave in isolated pockets likely over Madhya Pradesh, Vidarbha and West Rajasthan; in some parts with severe heat wave in isolated pockets likely over East Rajasthan. Heat Wave to severe heat wave conditions in isolated pockets over South Uttar Pradesh and in isolated pockets over Punjab, South Haryana, Chhattisgarh, Marathawada and Telangana. Squally weather with winds, speed reaching 35-45 kmph, likely to prevail over Southwest Arabian Sea, south east Arabian sea & adjoining Maldives- Comorin area and along and off Kerala coast. Fishermen are advised not to venture into these areas.
- 09 Jun (Day 4): Thunderstorm accompanied with lighting and gusty winds (30-40 kmph) at isolated places likely over Chhattisgarh and Thunderstorm accompanied with lighting at isolated places over Bihar, West Bengal & Sikkim and Odisha. Heavy to Very heavy rainfall at isolated places over Kerala & Mahe. Heavy rainfall at isolated places likely over Lakshadweep, Arunachal Pradesh, South Interior Karnataka, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Heat Wave conditions in many parts with severe heat wave in isolated pockets likely over Vidarbha and West Rajasthan; in some parts with severe heat wave in isolated pockets likely over East Rajasthan. Heat Wave to severe heat wave conditions in isolated pockets over South Uttar Pradesh; Heat Wave Condition in many parts likely over Madhya Pradesh and in isolated pockets over Punjab, South Haryana, Chhattisgarh and Telangana. Squally weather with winds, speed reaching 35-45 kmph, likely to prevail over Southwest Arabian Sea, south east central Arabian sea off Kerala -Karnataka coasts. Fishermen are advised not to venture into these areas.
- 10 Jun (Day 5): Thunderstorm accompanied with lighting and gusty winds (30-40 kmph) at isolated places likely over Chhattisgarh and Thunderstorm accompanied with lighting at isolated places over Sub-Himalayan West Bengal & Sikkim. Heavy to Very heavy rainfall at isolated places over Lakshadweep. Heavy rainfall at isolated places likely over Kerala and Assam & Meghalaya. Heat Wave conditions in many parts with severe heat wave in isolated pockets likely over Vidarbha; in some parts with severe heat wave in isolated pockets likely over West Rajasthan. Heat Wave to severe heat wave conditions in isolated pockets over South Uttar Pradesh;

Heat Wave Condition in many parts likely over Madhya Pradesh; in some parts over East Rajasthan and in isolated pockets over Punjab, South Haryana, Chhattisgarh and Telangana. Squally weather with winds, speed reaching 35-45 kmph, likely to prevail over Southwest Arabian Sea, east central & adjoining south east Arabian sea. Fishermen are advised not to venture into these areas.

- The weather outlook for the period of seven days *i.e* 06 to 13 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, Punjab, Gangetic West Bengal, Sub- Himalayan West Bengal & Sikkim, Odisha, Marathawada, Madhya Maharashtra, North Interior Karnataka, South Interior Karnataka, Coastal Karnataka, Coastal Andhra Pradesh, Rayalaseema, Kerala, Tamilnadu & Puducherry, Lakshadweep, Andaman & Nicobar and North Eastern States. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

West Bengal

Weather condition:

Light rainfall received in West Bengal state during past few days. Maximum temperature ranged between 33.2 to 37.5 °C and minimum temperature ranged between 22.2 to 28.5 °C.

Contingency measure:

- Boro Rice: Complete the harvesting as early as possible as moderate to high rainfall is expected for next five days. Dry the harvested crops in a shaded place.
- Aman Rice: Start preparation of seedbed for cultivation of Aman rice. This is the best time for sowing since, moderate to heavy rainfall is expected for coming days. Jute: As per last week suggestion, complete the intercultural operations and apply top dressing. Under prevalent weather situation, there is chance of the attack of weevil. To control it apply 2ml Endosulphan per lit of water. At present attack of jute semilooper, bihar hairy caterpillar and stem weevil is becoming severe. To control it apply Diclorovos @3 ml per 4 litre of water or Endosulphan 2 ml per litre of water. Sesame: Weeding should be done properly.
- Vegetables: In pumpkin, ridge-gourd, pointed gourd and cucumber, there is a chance of attack of Red-Pumpkin Beetle in the weather condition. To control the pest apply Dimecron or rogor (1ml per lit. of water). Brinjal Fruit and shoot borer is very

severe in maximum places. Apply Triazophos 40 EC @ 1.5 ml, Spinosad 45 EC @0.2 ml or Cartap Hydrochloride @0.75 g per litre of water alternatively.

- Mango: In the prevailing weather situation, there is a chance of attack of fruit borer. To control these insects, spray Dichlorovos @ 1.5 - 2.0 ml per litre of water.

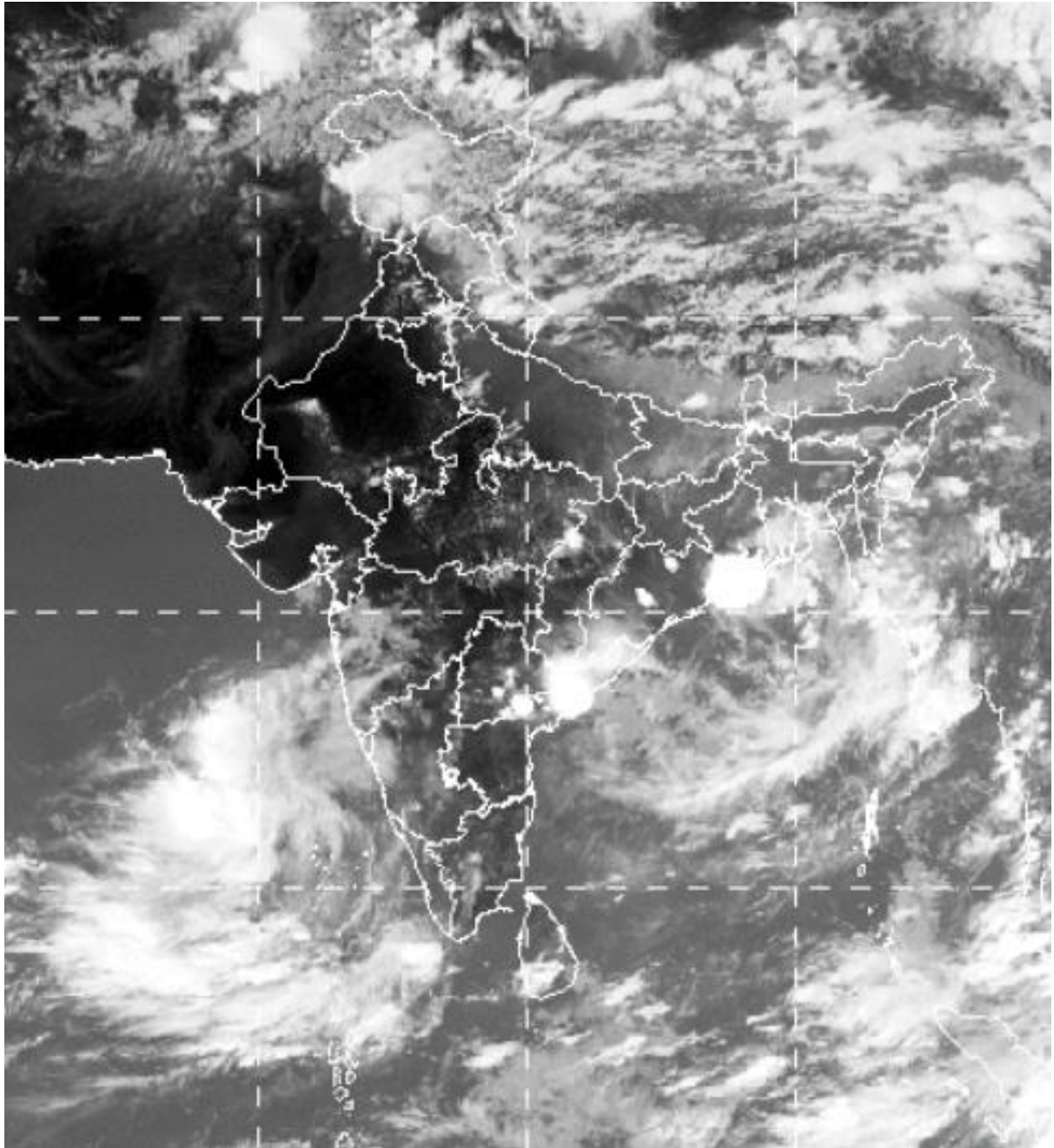


Figure: 1. Latest available satellite picture as on 06 June 2019 at 0230 Hrs (IST).

(Source: IMD).

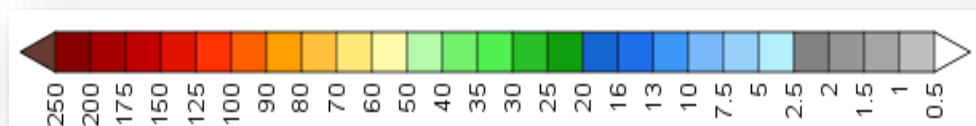
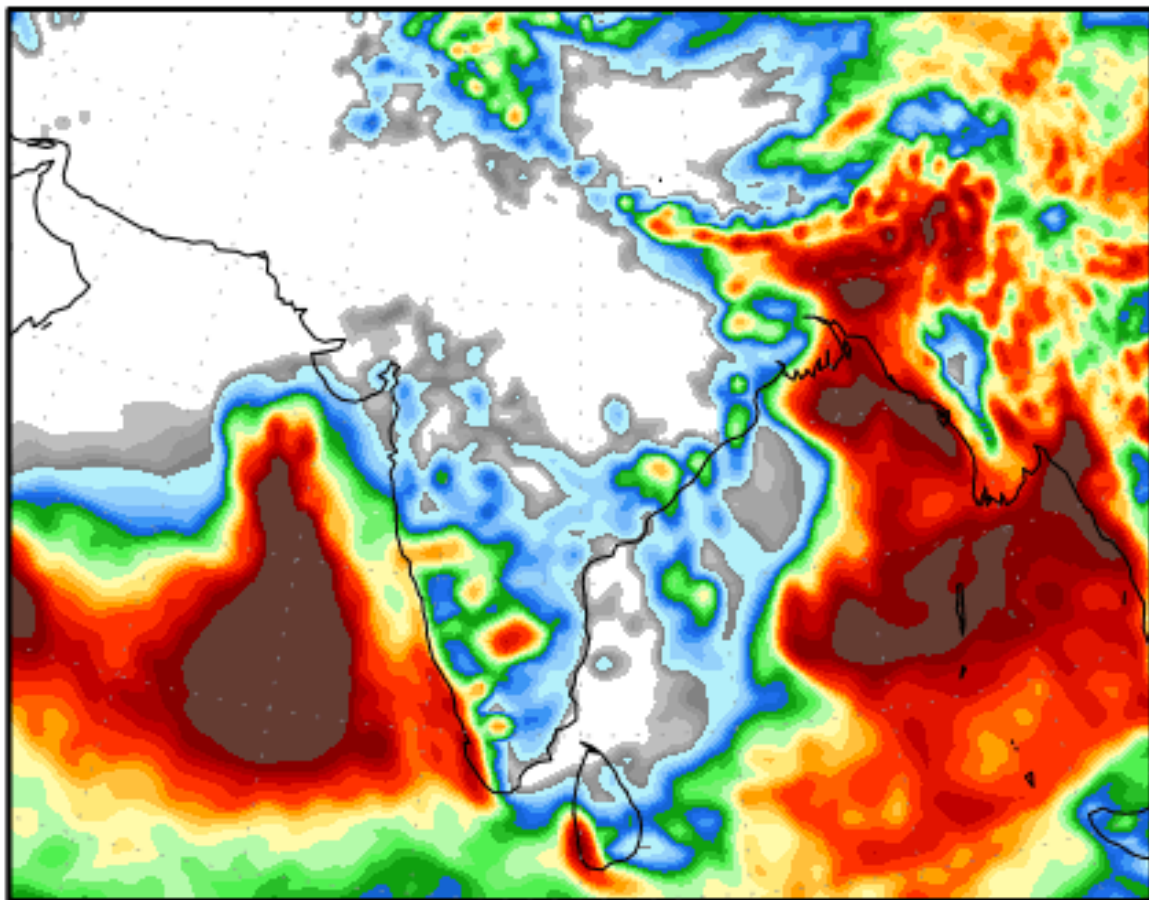


Figure: 2. Precipitation forecast for 06 to 13 June 2019 (Source: NOAA NCEP).