

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 19 June 2019

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Northern Limit of Monsoon (NLM) continues to pass through Lat. 13°N/Long. 60°E, Lat. 13°N/Long. 70°E, Mangaluru, Mysuru, Salem, Cuddalore, Lat. 14°N/Long. 86°E, Goalpara, Alipurduar, Gangtok and Lat. 28°N/Long. 88°E.
- Conditions are becoming favourable for further advance of Southwest Monsoon into some more parts of Central Arabian Sea, Karnataka, some parts of south Konkan & Goa, Andhra Pradesh, Telangana, remaining parts of Tamilnadu, some more parts of Bay of Bengal, remaining parts of northeast India, some parts of West Bengal & Sikkim, Bihar, Jharkhand and Odisha in the next 2-3 days.
- Strong winds and rough sea in association with the Southwest Monsoon are continuing over southwest & adjoining westcentral Arabian Sea.
- 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 yesterday): at many places over Saurashtra & Kutch and Konkan & Goa; at a few places over Gujarat Region Coastal Karnataka, Kerala, Lakshadweep, Gangetic West Bengal & Sikkim and at isolated places over Haryana, Chandigarh & Delhi, East Rajasthan, Madhya Maharashtra, South Interior Karnataka, Andaman & Nicobar Islands, Madhya Pradesh, Vidarbha, Chhattisgarh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Odisha. Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Punjab, Kerala, Coastal Karnataka, Chhattisgarh, Jammu & Kashmir, Gujarat state, Gangetic West Bengal & Sikkim, Odisha, Haryana, Chandigarh & Delhi, Bihar and Assam & Meghalaya.
- Yesterday, heat Wave Conditions were observed at some parts over Coastal Andhra Pradesh and Vidarbha and in isolated places over Gangetic West Bengal, Bihar, Telangana, Tamilnadu, Puducherry & Karaikal and Jharkhand.

- Maximum temperature departures as on 18.06.2019: Maximum temperatures were markedly above normal (5.1°C or more) at isolated places over Gangetic West Bengal, Odisha, Coastal Andhra Pradesh, Vidarbha and Telangana; appreciably above normal (3.1°C to 5.0°C) at most places over Rayalaseema and Marathawada; at many places over Kerala, Bihar, Jharkhand and Nagaland, Manipur, Mizoram & Tripura; at a few places over South Interior Karnataka and Tamilnadu, Puducherry & Karaikal and at isolated places over Konkan & Goa and Madhya Maharashtra; above normal (1.6°C to 3.0°C) at many places over Coastal Karnataka, Chhattisgarh and Assam & Meghalaya and at isolated places over Madhya Pradesh and East Uttar Pradesh. They were markedly below normal (-5.1°C or less) at most places over Punjab; at many places over Haryana, Chandigarh & Delhi; at a few places over Rajasthan and at isolated places over Himachal Pradesh, Gujarat State and West Uttar Pradesh; appreciably below normal (-3.1°C to -5.0°C) at a few places over Uttarakhand and at isolated places over Jammu & Kashmir; below normal (-1.6°C to -3.0°C) at many places over Andaman & Nicobar Islands and near normal over rest parts of the country.
- Yesterday, the highest maximum temperature of 42.8°C was recorded at Bapatla (Coastal Andhra Pradesh).
- Minimum temperature departures as on 19.06.2019: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at many places over Telangana, Rayalaseema and Coastal Andhra Pradesh; at a few places over Vidarbha; at isolated places over Gangetic West Bengal, Assam & Meghalaya and Tamilnadu, Puducherry & Karaikal; above normal (1.6°C to 3.0°C) at most places over Jharkhand and Sub-Himalayan West Bengal & Sikkim; at many places over Nagaland, Manipur, Mizoram & Tripura and North Interior Karnataka; at a few places over Arunachal Pradesh, East Madhya Pradesh, Marathawada and Coastal Karnataka; at isolated places over West Rajasthan, East Uttar Pradesh, Madhya Maharashtra, Kerala & Mahe and Odisha. They are markedly below normal (-5.0°C or less) at many places over East Rajasthan and at isolated places over West Madhya Pradesh; appreciably below normal (-3.1°C to -5.0°C) at many places over Haryana, Chandigarh & Delhi; at a few places over Himachal Pradesh and at isolated places over Jammu & Kashmir and West Uttar Pradesh and near normal over rest parts of the country.

Weather Warning during next 5 days (IMD)

- 19 Jun (Day 1): Thunderstorm accompanied with gusty winds (30-40 kmph) & lightning at isolated places very likely over Vidarbha, Chhattisgarh, Telangana, Uttarakhand, West Uttar Pradesh, West Bengal & Sikkim, Odisha, Jharkhand, Bihar and with lightning at isolated places over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Heavy rainfall at isolated places very likely over Kerala & Mahe, Coastal & South Interior Karnataka, Konkan & Goa, West Madhya Pradesh, south Uttar Pradesh, Andaman & Nicobar Islands, Assam &

Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Heat wave conditions in some parts very likely over Vidarbha and Coastal Andhra Pradesh & Yanam and in isolated pockets very likely over Telangana, Rayalaseema, Gangetic West Bengal, Bihar and Tamilnadu, Puducherry & Karaikal. Strong Winds very likely over southwest and adjoining westcentral Arabian Sea. Fishermen are advised not to venture into these areas.

- 20 Jun (Day 2): Thunderstorm accompanied with gusty winds (30-40 kmph) & lightning at isolated places very likely over Rayalaseema, Chhattisgarh, Telangana, Uttarakhand, West Bengal & Sikkim, Jharkhand, Bihar and with lightning at isolated places over Odisha, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Heavy rainfall at isolated places very likely over Kerala & Mahe, Coastal & South Interior Karnataka, Coastal Andhra Pradesh, Konkan & Goa, Telangana, West Bengal & Sikkim, Odisha, Andaman & Nicobar Islands, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Heat wave conditions in some parts very likely in isolated pockets very likely over Tamilnadu, Puducherry & Karaikal, Vidarbha and Coastal Andhra Pradesh & Yanam. Strong Winds very likely over southwest and adjoining westcentral Arabian Sea. Fishermen are advised not to venture into these areas.
- 21 Jun (Day 3): Thunderstorm accompanied with gusty winds (30-40 kmph) & lightning at isolated places very likely over Rayalaseema, Gangetic West Bengal, Jharkhand, Bihar and with lightning at isolated places over Odisha. Heavy rainfall at isolated places very likely over Tamilnadu, Puducherry & Karaikal, Kerala & Mahe, Coastal & South Interior Karnataka, Coastal Andhra Pradesh, Konkan & Goa, Rayalaseema, Telangana, Chhattisgarh, Gangetic West Bengal and Odisha. Strong Winds very likely over southwest and adjoining westcentral Arabian Sea. Fishermen are advised not to venture into these areas.
- 22 Jun (Day 4): Thunderstorm accompanied with gusty winds (30-40 kmph) & lightning at isolated places likely over Bihar. Heavy rainfall at a few places with very heavy rainfall at isolated places likely over Coastal Karnataka; Heavy to Very Heavy rainfall at isolated places likely over Kerala & Mahe and heavy rainfall at isolated places likely over Interior Karnataka, Tamilnadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Konkan & Goa, south Madhya Maharashtra, Chhattisgarh, Arunachal Pradesh and Odisha.
- 23 Jun (Day 5): Thunderstorm accompanied with gusty winds (30-40 kmph) & lightning at isolated places likely over Jammu & Kashmir and Himachal Pradesh. Heavy to Very Heavy rainfall at isolated places likely over Coastal Karnataka and heavy rainfall at isolated places likely over Kerala & Mahe, Interior Karnataka, Coastal Andhra Pradesh & Yanam, Telangana, Konkan & Goa, south Madhya Maharashtra, Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and Assam & Meghalaya.

- The weather outlook for the period of seven days *i.e* 19 to 26 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, Punjab, Haryana, Chandigarh & Delhi, East Rajasthan, Gangetic West Bengal & Sikkim, Saurashtra & Kutch and Konkan & Goa, Gujarat Region, Madhya Pradesh, Chhattisgarh, Odisha, Vidarbha, Madhya Maharashtra, South Interior Karnataka, Coastal Karnataka, Kerala, Lakshadweep, Andaman & Nicobar and North Eastern States. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Bihar

Weather condition:

Dry weather prevailed in Bihar state during past few days. Maximum temperature ranged from 37.2 to 42.0°C and the minimum temperature ranged from 26.9 to 28.9 °C.

Contingency measure:

- Kharif Paddy: Nursery sowing is advised for medium duration of rice varieties such as Seeta, Santosh, Saroj, Rajshri, Prabhat, Rajendra suvasni, Rajendra kasturi and Rajendra bhagwati in North Bihar. Before sowing, seeds should be treated with Carbendazim@1.5 gram/kg of seed. Complete the nursery sowing of long duration varieties of paddy such as Rajshree, Rajendra sweta, Rajendra mansuri, BPT-5204, Swarna, Satyam and Kishor at the earliest
- Kharif /Summer Maize: Sowing of kharif maize is advised. Devki, Suwan, Shaktimaan-1, Shaktimaan-2, Rajendra shanker makka-3 and Ganga 11 varieties are suitable for sowing in North Bihar. Application of 100 quintals of FYM, 30 kg Nitrogen, 60 kg Phosphorus and 50 kg potash per hectare is advised during land preparation. Before sowing, check the proper moisture in the soil. Lack of soil moisture results poor germination.
- Kharif onion: Land preparation/Nursery sowing is advised for kharif onion. For healthy and strong seedlings, application of FYM/compost is advised during nursery preparation. Agrifound Dark Red (ADR), N-53, Bhima super, Arka kalyan are recommended varieties for sowing in North Bihar region. Farmers are advised to arrange the seeds from reliable sources. For healthy growth of seedlings, treated seeds should be used.
- Turmeric: Sowing of Rajendra Sonia and Rajendra Sonali varieties of turmeric is advised. The size of the seed should be around 30-35 gram which contains 4-5 buds. Seed treatment with 2.5 gram Diethane M-45 plus 0.1% bavistin/Kg of seed is advised. Sowing should be done after half an hour of seed treatment.
- Vegetables: Intercultural operation is advised in summer vegetables such as lady's finger, pumpkin, cucumber, sponge gourd, bottle gourd etc.

- Regular monitoring is advised against attack of insect-pest and diseases. If any insect-pests/diseases attack seen in the crop, recommended pesticides should be applied. Give irrigation in the vegetables in case of poor soil moisture.
- Livestock: In view of increasing temperature, provide clean water to the milch animals and keep them in the shaded place in day hour. Vaccination of cattles is advised against Anthrax, Black Quarter and H.S. diseases.

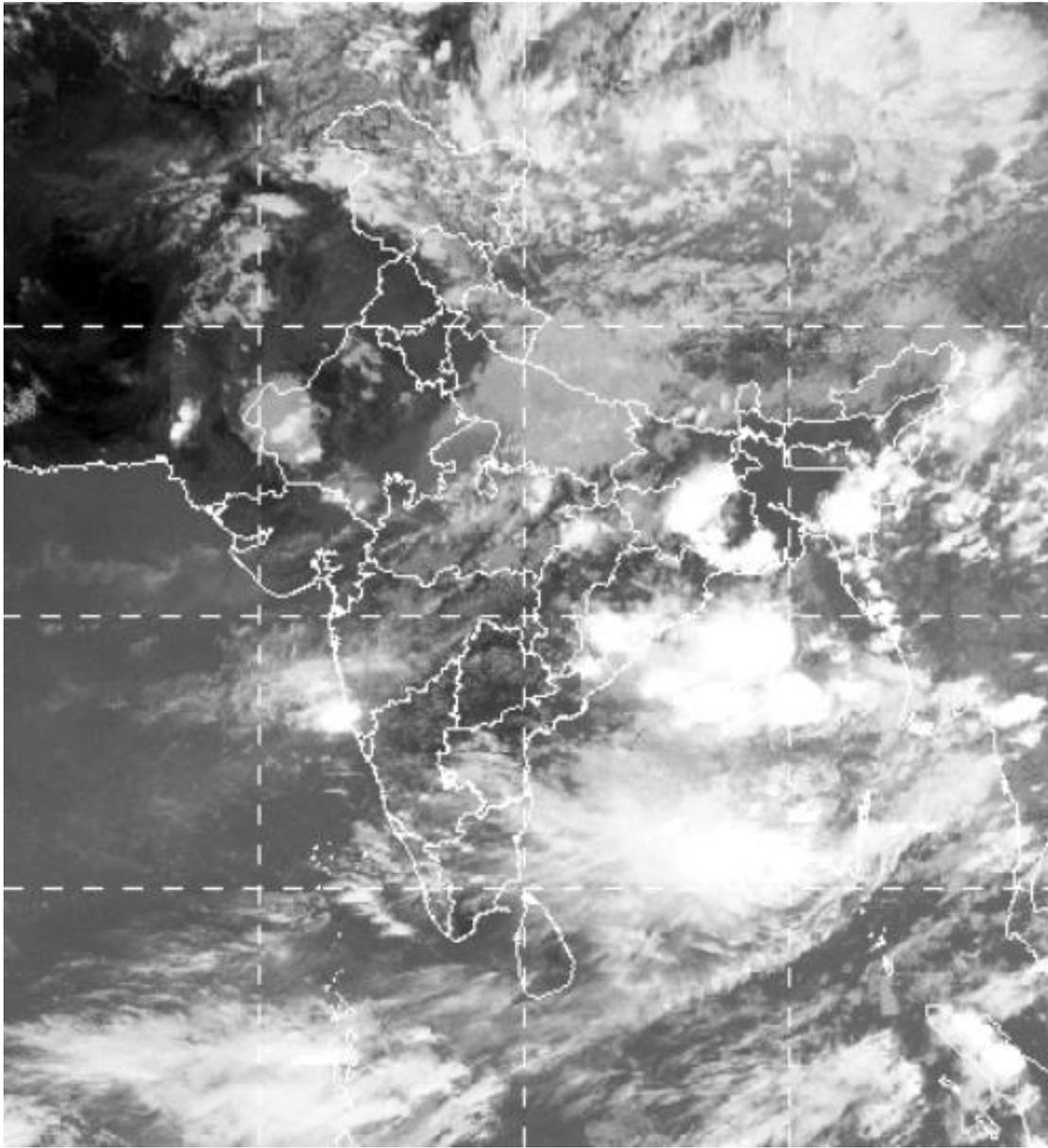


Figure: 1. Latest available satellite picture as on 19 June 2019 at 0230 Hrs (IST).

(Source: IMD).

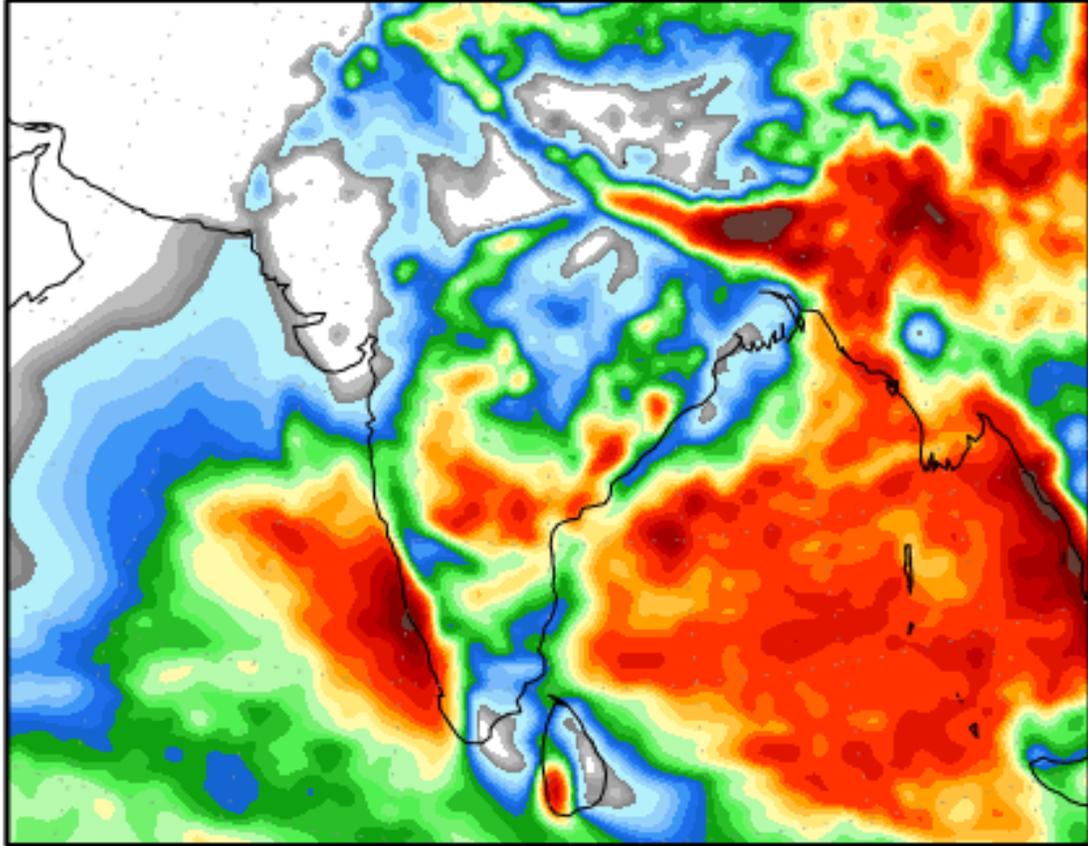


Figure: 2. Precipitation forecast for 19 to 26 June 2019 (Source: NOAA NCEP).