

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 30 July 2019

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The monsoon trough passes south of normal position and is active with two embedded cyclonic circulations: one over south Rajasthan and the other one over north Odisha & adjoining areas of Gangetic West Bengal and Jharkhand.
- The cyclonic circulation over south Rajasthan is likely to become less marked by 31st July. However, the eastern part of the trough is very likely to remain active for the next 2-3 days, in view of the likely persistence of the cyclonic circulation over Chhattisgarh, Odisha region and fresh development of cyclonic circulation over north Bay of Bengal.
- Under the above scenario, Fairly widespread to widespread rainfall with isolated heavy to very heavy falls are likely over Odisha, south Chhattisgarh, Madhya Pradesh, Rajasthan, Gujarat, Maharashtra and Telangana during next 48 hours. Isolated extremely heavy falls are also likely over Chhattisgarh during next 24 hours.
- Enhanced rainfall activity is likely over Punjab, Haryana, Chandigarh, Delhi, West Uttar Pradesh and Western Himalayan region during 31st July to 02nd August.
- The images showing the latest satellite picture in figure. 1.

Main Weather Observations (IMD)

- Rain/Thunder showers observed (from 0830 hrs IST to 1730 hours IST of yesterday): at most places over Gangetic West Bengal, Gujarat State, Konkan & Goa, Madhya Maharashtra, Vidarbha, Coastal & North Interior Karnataka, Chhattisgarh; at many places over Andaman & Nicobar Islands, Odisha, Jharkhand, Marathawada, West Madhya Pradesh, Telangana; at a few places over Sub-Himalayan West Bengal & Sikkim, East Madhya Pradesh, Coastal Andhra Pradesh & Yanam and at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Bihar, Himachal Pradesh, Uttarakhand, Uttar Pradesh, Rajasthan, Rayalaseema, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.

- Very Heavy Rainfall was observed at isolated places over southwest Madhya Pradesh and Heavy Rainfall at isolated places over Madhya Maharashtra.
- Thunder storm observed (from 0830 hours IST to 1730 hours IST of yesterday): at isolated places over Vidarbha.
- Maximum temperature departures as on 29-07-2019: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Uttarakhand; at a few places over Kerala & Mahe and at isolated places over Tamil Nadu, Puducherry & Karaikal; above normal (1.6°C to 3.0°C) at most places over Lakshadweep; at many places over Nagaland, Manipur, Mizoram & Tripura; at a few places over Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Himachal Pradesh, East Madhya Pradesh and at isolated places over Punjab, Haryana, Chandigarh & Delhi. They were markedly below normal (-5.1°C or less) at many places over Telangana; at a few places over Vidarbha and at isolated places over Chhattisgarh and North Interior Karnataka; appreciably below normal (-3.1°C to -5.0°C) at most places over Marathwada; at many places over Madhya Maharashtra; at a few places over Coastal Andhra Pradesh & Yanam and at isolated places over Andaman & Nicobar Island; below normal (-1.6°C to -3.0°C) at many places over Gujarat Region; at a few places over Saurashtra & Kutch, West Rajasthan, West Madhya Pradesh, Odisha, Jharkhand; at isolated places over East Rajasthan, Rayalaseema, Gangetic West Bengal and near normal over rest parts of the country. The highest maximum temperature of 39.0°C recorded at Madurai (Tamil Nadu).
- Minimum temperature departures as on 29-07-2019: Minimum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Himachal Pradesh and at isolated places over Haryana, Chandigarh & Delhi and Bihar; above normal (1.6°C to 3.0°C) at most places over Uttarakhand; at many places over Kerala & Mahe; at a few places over East Madhya Pradesh, West Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and Saurashtra & Kutch and at isolated places over Jammu & Kashmir, East Rajasthan, West Madhya Pradesh and Gujarat region. They were appreciably below normal (-3.1°C to -5.0°C) at isolated places over East Uttar Pradesh and below normal (-1.6°C to -3.0°C) at a few places over Odisha, Chhattisgarh, Marathwada and Telangana and at isolated places over Vidarbha, Madhya Maharashtra and Coastal Andhra Pradesh & Yanam and near normal over rest parts of the count.

Weather Warning during next 5 days (IMD)

- 30 July (Day 1): Heavy to very heavy rainfall with extremely heavy falls very likely at isolated places over Chhattisgarh; Heavy to very heavy rainfall at isolated places over Telangana, Madhya Maharashtra, Gujarat state, Vidarbha, Madhya Pradesh & Assam & Meghalaya and heavy rainfall at isolated places over Coastal Karnataka, Konkan & Goa, Marathwada, Odisha, Rajasthan, Arunachal Pradesh and

Nagaland, Manipur, Mizoram & Tripura. Strong winds, speed reaching 40-50 kmph, are likely to prevail over north Arabian Sea, central and southwest Arabian Sea. Squally weather is likely to prevail over Gujarat coast. Fishermen are advised not to venture into these areas.

- 31 July (Day 2): Heavy to very heavy rainfall at isolated places very likely over Rajasthan, Madhya Pradesh & Chhattisgarh and heavy rainfall at isolated places over Coastal Karnataka, Telangana, Odisha, Konkan & Goa, Madhya Maharashtra, Gujarat region, Vidarbha, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Strong winds, speed reaching 40-50 kmph, are likely to prevail over north Arabian Sea, central and southwest Arabian Sea. Squally weather is likely to prevail over Gujarat coast. Fishermen are advised not to venture into these areas.
- 01 August (Day 3): Heavy to very heavy rainfall at isolated places likely over Odisha and heavy rainfall at isolated places over Coastal Karnataka, Madhya Maharashtra, Gujarat state, Vidarbha, Chhattisgarh, Madhya Pradesh, Rajasthan, West Uttar Pradesh, Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab and Haryana, Chandigarh. Strong winds, speed reaching 40-50 kmph, are likely to prevail over north Arabian Sea, central and southwest Arabian Sea. Squally weather is likely to prevail over Gujarat coast. Fishermen are advised not to venture into these areas.
- 02 August (Day 4): Heavy to very heavy rainfall at isolated places likely over Odisha, Gujarat region & Konkan & Goa and heavy rainfall at isolated places over Coastal Karnataka, Madhya Maharashtra, Saurashtra & Kutch, Chhattisgarh, Madhya Pradesh, East Rajasthan, Uttar Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Strong winds, speed reaching 40-50 kmph, are likely to prevail over north Arabian Sea, central and southwest Arabian Sea. Squally weather is likely to prevail over Gujarat coast. Fishermen are advised not to venture into these areas.
- 03 August (Day 5): Heavy rainfall at isolated places over Gujarat State, East Rajasthan, Konkan & Goa, Madhya Maharashtra, Coastal Karnataka, Madhya Pradesh, Chhattisgarh, Jharkhand and Nagaland, Manipur, Mizoram & Tripura. Strong winds, speed reaching 40-50 kmph, are likely to prevail over north Arabian Sea, central and southwest Arabian Sea. Squally weather is likely to prevail over Gujarat coast. Fishermen are advised not to venture into these areas.
- The weather outlook for the period of seven days i.e., 30 July to 07 August 2019 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thunder shower may occur over Sub-Himalayan West Bengal & Sikkim, Bihar, Madhya Pradesh, Odisha, Konkan & Goa, Vidarbha, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh, Rayalaseema, North Interior Karnataka, Coastal & South Interior Karnataka, Kerala,

Tamil Nadu & Puducherry, Lakshadweep, Andaman & Nicobar Islands and North Eastern States. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

West Bengal

Weather condition:

Very Light to Moderate rainfall received in isolated places in West Bengal state during past few days. The maximum temperature was ranged between 30-37°C and minimum temperature was ranged between 25-28°C

Contingency measure:

- Aman Rice- Light to moderate rainfall is expected in coming days. Higher air temperature is also expected. Thus, complete the sowing operations as well as transplanting operations with sufficient irrigation. Ensure weed free seed bed and make proper drainage channel. Use suitable and improved varieties like IET-4786, Khitish, Swarna, IR-36, etc.
- Jute: In case of late sown crop, this time attack of Bihar hairy caterpillar and semi loopers may be prevalent. For both insects, apply 1.5 ml Chlorpyrifos per lt of water.
- 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. To reduce attack of Fruit fly and hopper apply Monocrotophos or Fosalone @1.5 ml per litre of water.

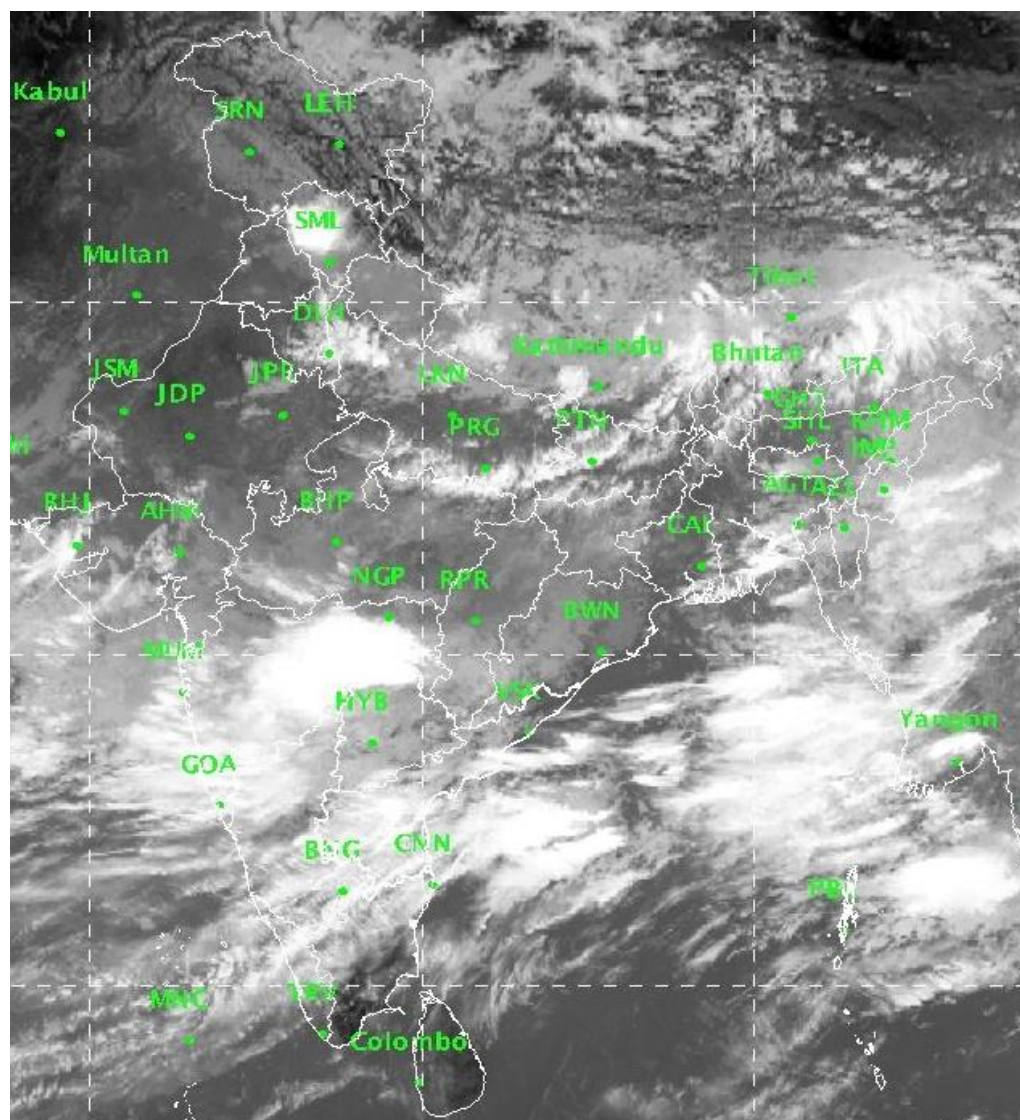


Figure: 1. Latest available satellite picture as on 30 July 2019 at 10:30 Hrs (IST).

(Source: IMD).

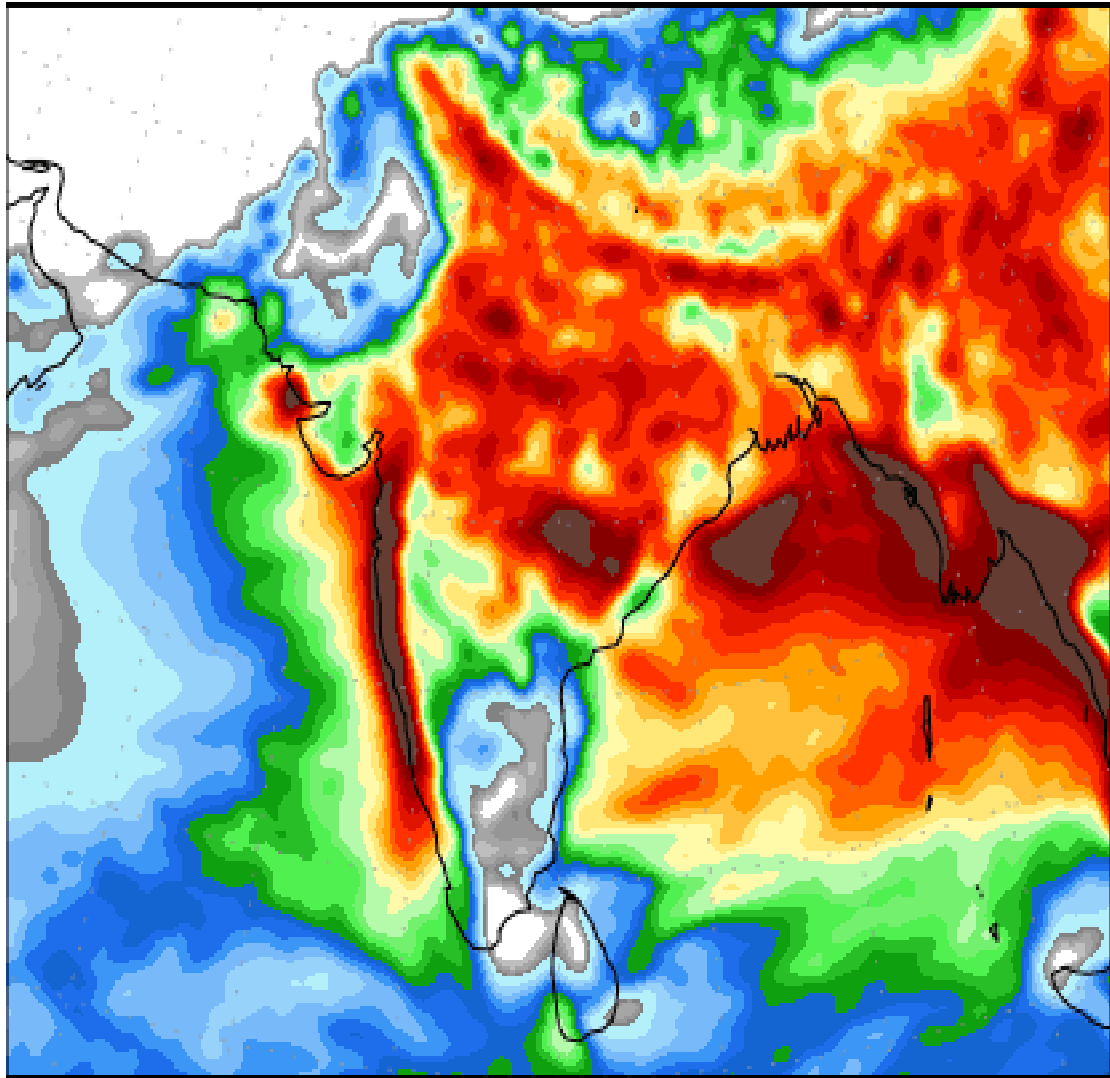


Figure: 2. Precipitation forecast for 30 July to 07 August 2019 (Source: NOAA NCEP).