

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 24 July 2019

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The monsoon trough is very likely to shift southwards from its current position and deepen gradually from today onwards. In this scenario, the rainfall activity is very likely to increase over central India, adjoining northern parts of peninsular India and also along the northern plains from 24th July for the subsequent 3-4 days. Hence fairly widespread to widespread rainfall with isolated heavy falls are likely over Madhya Pradesh, Chhattisgarh, West Bengal, Odisha, Uttar Pradesh, Haryana, Chandigarh & Delhi, Punjab, Rajasthan, Maharashtra & Goa during this period.
- With the likely southward shift of the monsoon trough and probable formation of a low pressure area over coastal areas of West Bengal around 26th July, the intensity of rainfall over Assam & Meghalaya and Sub-Himalayan West Bengal & Sikkim is also likely to reduce after 24 hours.
- The images showing the latest satellite picture in figure. 1.

Main Weather Observations (IMD)

- Rain/Thunder showers observed (from 0830 hrs IST to 1730 hrs IST of yesterday): at most places over Konkan & Goa, Kerala and Sub-Himalayan West Bengal & Sikkim; at many places over Coastal Karnataka, Lakshadweep and South Interior Karnataka; at a few places over East Uttar Pradesh, Bihar, Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura and at isolated places over Punjab, South Interior Karnataka, Madhya Maharashtra, North Interior Karnataka, Rayalaseema, Tamilnadu, Puducherry & Karaikal, Coastal Andhra Pradesh, Vidarbha, Chhattisgarh, East Madhya Pradesh, Jharkhand, Odisha and Assam & Meghalaya.
- Yesterday, heavy rainfall was observed at isolated places over Coastal Andhra Pradesh and Coastal Karnataka.
- Thunder storm observed (from 1130 hours IST of yesterday to 0530 hours IST of today): at isolated places over Uttarakhand, Uttar Pradesh, Bihar, East Madhya Pradesh, West Rajasthan, Chhattisgarh, Odisha, Coastal Andhra Pradesh and West Bengal & Sikkim.

- Maximum temperature departures as on 23-07-2019: Maximum temperatures were markedly above normal (5.1°C or more) at most places over Madhya Pradesh; at many places over Rajasthan, Vidarbha and Jharkhand and at isolated places over Gujarat and Gangetic West Bengal; appreciably above normal (3.1°C to 5.0°C) at most places over Himachal Pradesh and Chhattisgarh; at many places over Jammu & Kashmir, Uttar Pradesh, Odisha and Jharkhand; at a few places over Punjab and at isolated places over Madhya Maharashtra and Telangana; above normal (1.6°C to 3.0°C) at Many places over Konkan & Goa and at isolated places over Tamilnadu, Puducherry & Karaikal. They were appreciably below normal (-3.1°C to -5.0°C) at many places over Coastal Andhra Pradesh and at a few places over Coastal Karnataka; below normal (-1.6°C to -3.0°C) at a few places over South Interior Karnataka and Rayalaseema and near normal over rest parts of the country. Yesterday, The highest maximum temperature of 42.4°C was recorded at Bikaner (East Rajasthan).
- Minimum temperature departures as on 23-07-2019: Minimum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over West Madhya Pradesh; at a few places over East Madhya Pradesh, West Uttar Pradesh and Vidarbha and at isolated places over Rajasthan, Gujarat Region and East Uttar Pradesh; above normal (1.6°C to 3.0°C) at most places over Punjab and Uttarakhand; at many places over Gangetic West Bengal and Jharkhand; at a few places over Jammu & Kashmir, Himachal Pradesh, Haryana, Chandigarh & Delhi, Saurashtra & Kutch, Telangana, Madhya Maharashtra and Chhattisgarh and at isolated places over Sub Himalayan West Bengal & Sikkim, Bihar and Lakshadweep. They were below normal (-1.6°C to -3.0°C) at a few places over Kerala & Mahe and isolated places over Coastal Andhra Pradesh & Yanam and near normal over rest parts of the country.

Weather Warning during next 5 days (IMD)

- 24 July (Day 1): Heavy to very heavy rainfall with extremely heavy falls very likely at isolated places over Konkan & Goa; Heavy to very heavy rainfall at isolated places over Uttar Pradesh, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Bihar and Coastal Karnataka and heavy rainfall at isolated places over East Rajasthan, Kerala & Mahe, South Interior Karnataka, Madhya Pradesh, Madhya Maharashtra, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Gangetic West Bengal, Odisha, Jharkhand and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm accompanied with lightning very likely at isolated places over Bihar, Jharkhand, Madhya Pradesh, Chhattisgarh, Odisha and West Bengal & Sikkim. Strong winds, speed reaching 40-50 kmph, are likely to prevail over southwest & west central Arabian Sea. Fishermen are advised not to venture into these areas.

- 25 July (Day 2): Heavy to very heavy rainfall with extremely heavy falls very likely at isolated places over West Uttar Pradesh; Heavy to very heavy rainfall at isolated places over Konkan & Goa, West Madhya Pradesh, East Uttar Pradesh, Haryana, Chandigarh & Delhi, Punjab, Himachal Pradesh, Uttarakhand and East Rajasthan and heavy rainfall at isolated places over Kerala & Mahe, Lakshadweep, Karnataka, Telangana, Madhya Maharashtra, East Madhya Pradesh, Chhattisgarh, Jammu & Kashmir, Bihar, Jharkhand, Odisha, West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura and Assam & Meghalaya. Strong winds, speed reaching 40-50 kmph, are likely to prevail over southwest & west central Arabian Sea. Fishermen are advised not to venture into these areas.
- 26 July (Day 3): Heavy to very heavy rainfall very likely at isolated places over Konkan & Goa, West Madhya Pradesh, Odisha and East Rajasthan and heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Uttar Pradesh, Haryana, Chandigarh & Delhi, West Rajasthan, Gangetic West Bengal, Jharkhand, Chhattisgarh, Assam & Meghalaya, East Madhya Pradesh, Madhya Maharashtra, Gujarat region, Telangana, Karnataka and Kerala & Mahe. Strong winds, speed reaching 40-50 kmph, are likely to prevail over north, southwest & central Arabian Sea. Fishermen are advised not to venture into these areas.
- 27 July (Day 4): Heavy to very heavy rainfall likely at a few places over Konkan & Goa and at isolated places over Madhya Maharashtra, West Madhya Pradesh, Assam & Meghalaya, Odisha and East Rajasthan and heavy rainfall at isolated places over Uttarakhand, East Uttar Pradesh, West Rajasthan, West Bengal & Sikkim, Jharkhand, East Madhya Pradesh, Vidarbha, Chhattisgarh, Gujarat region, Telangana and Coastal & North Interior Karnataka. Strong winds, speed reaching 40-50 kmph, are likely to prevail over north, southwest & central Arabian Sea. Fishermen are advised not to venture into these areas.
- 28 July (Day 5): Heavy to very heavy rainfall likely at a few places over Konkan & Goa and at isolated places over Madhya Maharashtra, West Madhya Pradesh, Assam & Meghalaya, Odisha and East Rajasthan and heavy rainfall at isolated places over Uttarakhand, East Uttar Pradesh, West Rajasthan, West Bengal & Sikkim, Jharkhand, East Madhya Pradesh, Vidarbha, Chhattisgarh, Gujarat region, Telangana and Coastal & North Interior Karnataka. Strong winds, speed reaching 40-50 kmph, are likely to prevail over north, southwest & central Arabian Sea. Fishermen are advised not to venture into these areas. Kindly visit State level Meteorological Centre / Regional Meteorological Centre website for district wise forecast & color.

The weather outlook for the period of seven days i.e., 24 July to 1 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)

South Karnataka

Weather condition:

Very light to moderate rainfall received in isolated places in South Karnataka state during past few days. The maximum temperature was ranged between 27-31°C and minimum temperature was ranged between 19-20° C

Contingency measure:

- Under mono cropping the suggested long duration crops for sowing are: Redgram : TTB-7, BRG-1,2,4&5 Maize: Ganga-11, Deccan -103, Vijaya composite, Composite NAC- 6004,6002, Hybrid-Nityashree (NAH-2049) Under double cropping the short duration crops: Ragi: Indaf-8, MR-1 and 6 Groundnut : TMV-2, JL-24, KCG-6 Cowpea: TVX-944, KBC-1, Green gram: PS-16, PDM-84,178 Black gram: Karagao-3, T-9, Rashmi (LBG-625)
- Horticulture crops: Mango: Taken up deep plough to expose the soil to kill the different stages of insect. → Apply recommended dose of fertilizer in June month. Advised for inter cultivation in mango crop to protect soil moisture in field. Recommended for pruning in June-July month to facilitate the sunlight to bear the more fruits in next seasons.
- Animal Husbandry: Vaccinate the cow against the Foot and Mouth Disease (FMD) & Black Quarter.
- Sericulture: Flacherie diseases: This is found in all seasons of the year, particularly its incidence are high in summer and rainy seasons. Care to be taken that infections should not enter from outside, recommended bed disinfectants like Suraksh, Vijetha, Ankush, Samrakshak etc., are to be dusted in each stage in the bed as to control the disease as per recommended dose. Infected worms should be removed at the earliest using forceps, collected in a basin with lime powder and buried in the soil. Never feed the silkworms with mulberry sprayed with insecticides/pesticides before the completion of the recommended safe period. The silkworms fed on such leaves develop flacherie symptoms

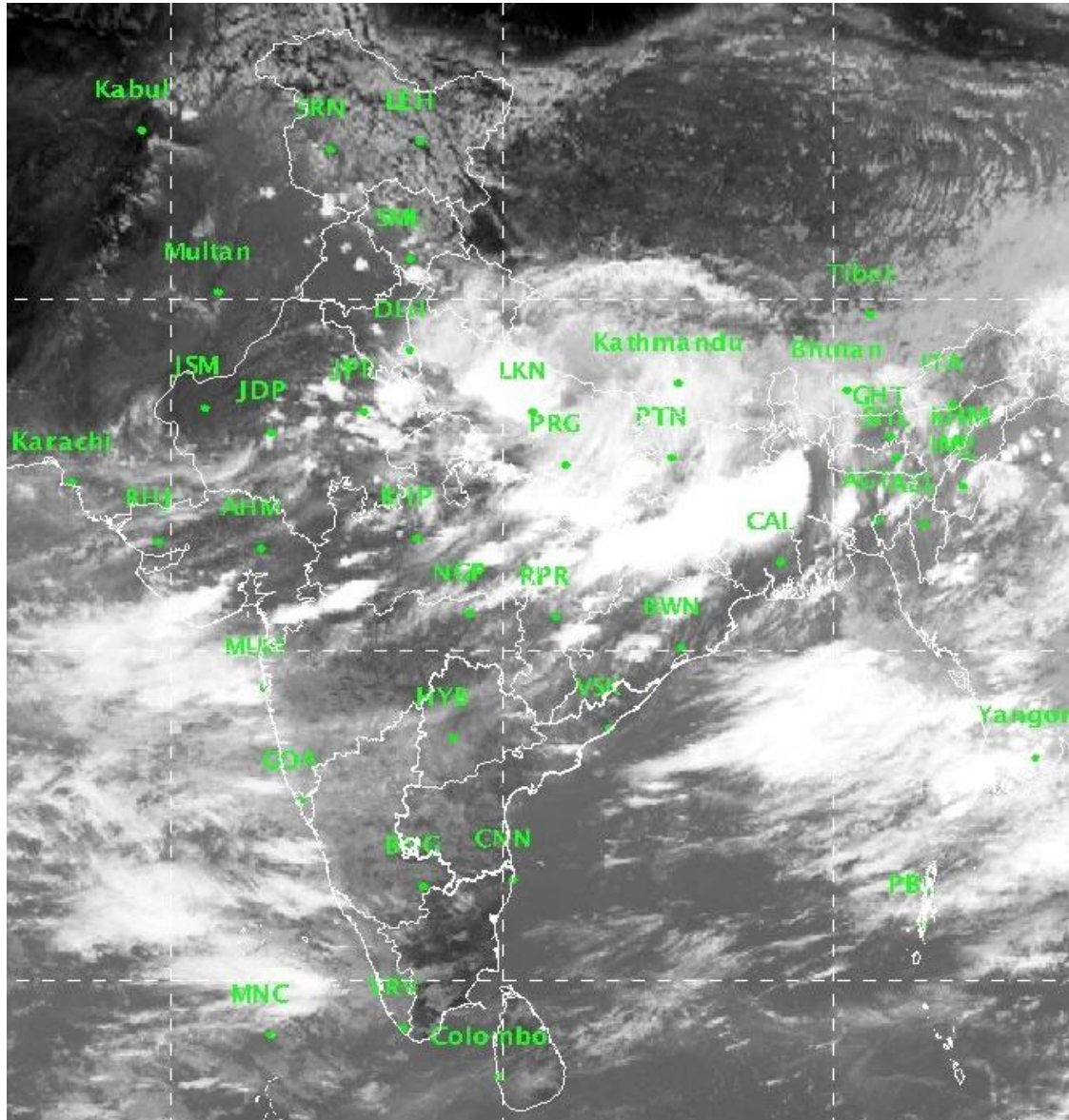


Figure: 1. Latest available satellite picture as on 24 July 2019 at 13:30 Hrs (IST).

(Source: IMD).

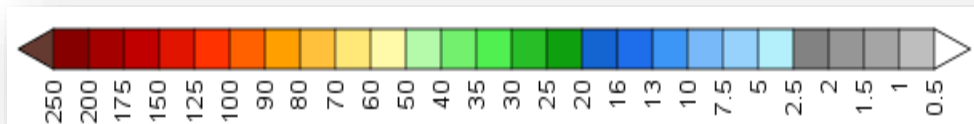
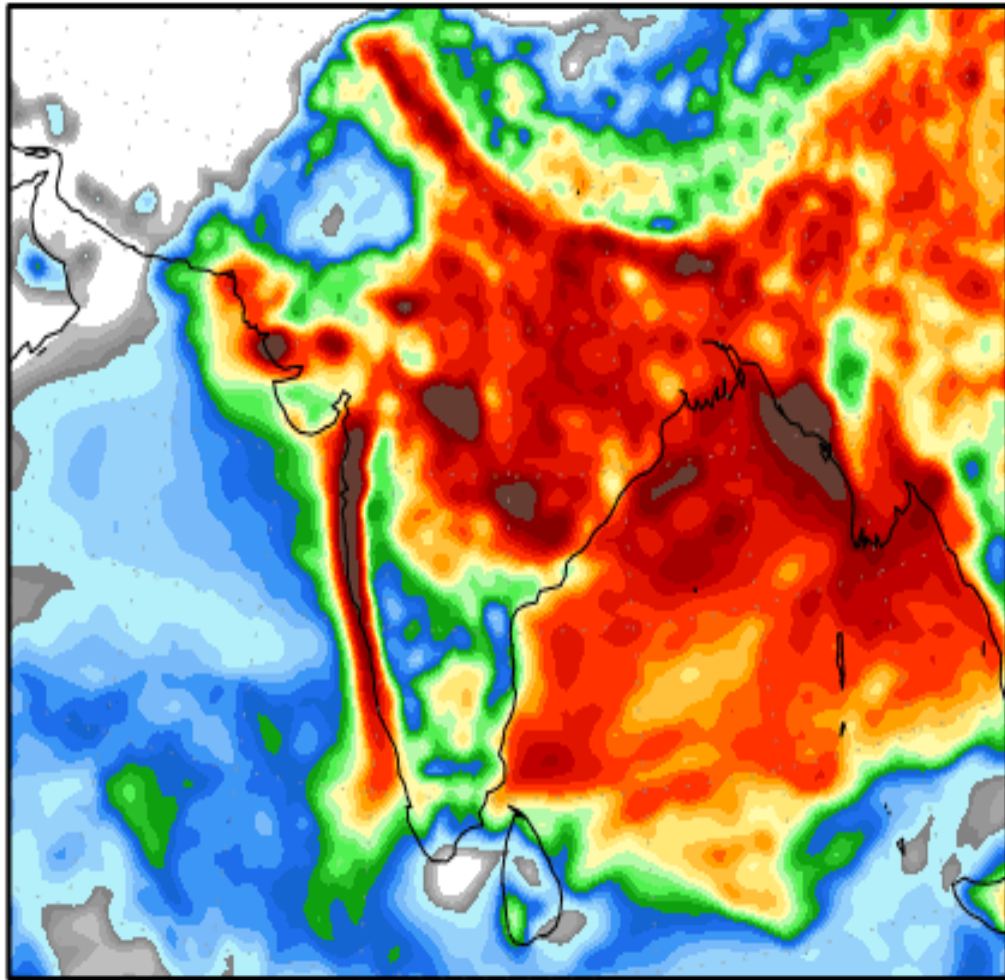


Figure: 2. Precipitation forecast for 24 July to 1 August 2019 (Source: NOAA NCEP).