

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 09 July 2019

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Southwest Monsoon has further advanced into remaining parts of East Rajasthan & Haryana and some more parts of West Rajasthan & Punjab. Northern Limit of Monsoon (NLM) passes through Lat. 25°N/Long. 60°E, Lat. 25°N/Long. 65°E, Barmer, Jodhpur, Churu, Ludhiana, Kapurthala and Lat. 33°N/Long. 74.5°E.
- The low pressure area over Bihar and adjoining areas of East Uttar Pradesh now lies as a well marked low pressure area over East Uttar Pradesh & adjoining Bihar. Associated cyclonic circulation extends upto 7.6 km above mean sea level and tilts southwestwards with height.
- The seasonal trough across the northern plains has shifted northwards. However, it is very likely to remain active during the coming 2-3 days owing to the presence of the well marked low pressure area mentioned above. As a consequence, widespread rainfall with heavy to very heavy falls at isolated places are likely over Uttar Pradesh during 9th-12th July with isolated extremely heavy falls over East Uttar Pradesh on 10th & 11th July. Northeastern states are likely to experience enhanced rainfall when widespread rainfall with isolated heavy to very heavy falls are likely over Assam & Meghalaya (isolated extremely heavy falls as well), Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura during 9th-12th July.
- Widespread of rainfall with isolated heavy to very heavy falls are also likely over Bihar (northern Districts especially), Sub-Himalayan West Bengal & Sikkim, Uttarakhand and Himachal Pradesh during the same Period.
- Widespread of rainfall activity with isolated heavy to very heavy falls are likely over Konkan and Coastal Karnataka during next 2-3 days with reduction intensity thereafter.
- The images showing the latest satellite picture in figure. 1

Main Weather Observations (IMD)

- Rain/Thunder showers observed (from 0830 hours IST of yesterday to 0830 hours of today): at most places over East Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim and Konkan & Goa; at many places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra and Coastal Karnataka; at a few places over Arunachal Pradesh, Himachal Pradesh, Gangetic West Bengal, East Uttar Pradesh, Bihar, Odisha, East Madhya Pradesh, Chhattisgarh and Vidarbha and at isolated places over Uttarakhand, West Rajasthan, Saurashtra & Kutch, North & South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.
- Heavy rainfall at a few places with extremely heavy falls at isolated places observed over Assam & Meghalaya; Heavy rainfall at a few places with Very heavy falls at isolated places over East Uttar Pradesh; Very heavy rainfall at isolated places over Madhya Maharashtra and Konkan & Goa; Heavy Rainfall at a few places over East Madhya Pradesh and Nagaland, Manipur, Mizoram & Tripura and at isolated places over Himachal Pradesh and Sub-Himalayan West Bengal & Sikkim.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at a few places over Jammu & Kashmir and at isolated places over Himachal Pradesh, Punjab, Haryana, Uttar Pradesh, West Madhya Pradesh, Gangetic West Bengal and Odisha.
- Maximum temperature departures as on 08-07-2019: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Coastal Andhra Pradesh & Yanam; at isolated places over North Interior Karnataka and Tamil Nadu, Puducherry & Karaikal; above normal (1.6°C to 3.0°C) at most places over Rayalaseema; at many places over Jammu & Kashmir, West Rajasthan, Saurashtra & Kutch, Telangana, and Kerala & Mahe; at a few places over Himachal Pradesh, Gangetic West Bengal and Andaman & Nicobar Islands; at isolated places over Gujarat region, Vidarbha and Odisha. They were appreciably below normal (-3.1°C to -5.0°C) at a few places over Assam & Meghalaya and Madhya Pradesh; at isolated places over East Uttar Pradesh; below normal (-1.6°C to -3.0°C) at a few places over Arunachal Pradesh and Sub-Himalayan West Bengal & Sikkim; at isolated places over Nagaland, Manipur, Mizoram & Tripura and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 42.0°C was recorded at Phalodi (West Rajasthan).
- Minimum temperature departures as on 09-07-2019: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at a few places over Jammu & Kashmir and Coastal Andhra Pradesh & Yanam; above normal (1.6°C to 3.0°C) at many places over Uttarakhand, West Rajasthan, Saurashtra & Kutch, Gangetic West Bengal, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Andaman & Nicobar Islands; at a few places over Himachal Pradesh, Gujarat Region and Sub-Himalayan

West Bengal & Sikkim and at isolated places over East Rajasthan, West Madhya Pradesh, Odisha, Konkan & Goa, Madhya Maharashtra, Telangana and Nagaland, Manipur, Mizoram & Tripura. They are below normal (-1.6°C to -3.0°C) at many places over Haryana, Chandigarh & Delhi; at a few places over East Uttar Pradesh and East Madhya Pradesh; at isolated places over Assam & Meghalaya and near normal over rest parts of the country.

Weather Warning during next 5 days (IMD)

- 09 July (Day 1): Heavy to very heavy rainfall with extremely heavy falls at isolated places very likely over Assam & Meghalaya; Heavy to very heavy rainfall at isolated places over Uttarakhand, Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Bihar, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Coastal Karnataka, Konkan & Goa, East Madhya Pradesh and Madhya Maharashtra; heavy rainfall at isolated places over South Interior Karnataka, Lakshadweep, Jammu & Kashmir, Himachal Pradesh, Haryana, Chandigarh & Delhi, Punjab, East Rajasthan, West Madhya Pradesh, Chhattisgarh, Jharkhand, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning at isolated places very likely over Jharkhand and Odisha. Rough to very rough sea conditions (with wind speed reaching 40-50 kmph) are likely to prevail over southwest & adjoining central and north Arabian Sea, West Bengal, Odisha, Karnataka. Goa, Gujarat and Maharashtra coast.
- 10 July (Day 2): Heavy to very heavy rainfall with extremely heavy falls at isolated places very likely over East Uttar Pradesh, Arunachal Pradesh and Assam & Meghalaya; Heavy to very heavy rainfall at isolated places over Uttarakhand, West Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Konkan & Goa and Bihar; heavy rainfall at isolated places over South Interior Karnataka, Himachal Pradesh, Kerala & Mahe, Nagaland, Manipur, Mizoram & Tripura, Coastal Karnataka, Madhya Maharashtra, Chhattisgarh and East Madhya Pradesh. Rough to very rough sea conditions (with wind speed reaching 40-50 kmph) are likely to prevail over southwest & adjoining central and north Arabian Sea.
- 11 July (Day 3): Heavy to very heavy rainfall with extremely heavy falls at isolated places very likely over Uttarakhand, East Uttar Pradesh and Assam & Meghalaya; Heavy to very heavy rainfall at isolated places over Himachal Pradesh, West Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Bihar and Arunachal Pradesh; heavy rainfall at isolated places over Punjab, Haryana, Chandigarh & Delhi, Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura, Coastal Karnataka and Konkan & Goa. Thunderstorm accompanied with lightning at isolated places very likely over Jharkhand and Odisha. Rough to very rough sea conditions (with wind speed reaching 40-50 kmph) are likely to prevail over southwest & adjoining central and north Arabian Sea.

- 12 July (Day 4): Heavy to very heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Bihar and Assam & Meghalaya; heavy rainfall at isolated places over Jammu & Kashmir, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura, Arunachal Pradesh and Konkan & Goa. Rough to very rough sea conditions (with wind speed reaching 40-50 kmph) are likely to prevail over southwest & adjoining central and north Arabian Sea.
- 13 July (Day 5): Heavy to very heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, Bihar, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; heavy rainfall at isolated places over Jammu & Kashmir, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Sub-Himalayan West Bengal, Arunachal Pradesh and Konkan & Goa. Rough to very rough sea conditions (with wind speed reaching 40-50 kmph) are likely to prevail over southwest & adjoining central and north Arabian Sea.
- The weather outlook for the period of seven days *i.e.*, 09 to 17 July 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, 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)

Gujarat

Weather condition:

Very light to rather heavy rainfall is received in Gujarat state during past few days. The maximum temperature was ranged between 31-34°C and minimum temperature was ranged between 23-27°C.

Contingency measure:

- *Kharif* crops: Land preparation for sowing of *Kharif* crops is recommended.
- Pearl millet: For sowing select variety like GHB-538, GHB-558, GHB-316 GHB-744 and sow @ 4.00 kg/ha seed rate with 45cm x 15 cm spacing. Application of 40 kg N 40 kg P as basal. Purchase certified seed for *kharif* crops only from authorized dealer.

Seed treatment with mercuric fungicide like Thiram, Captan etc., before sowing of crops.

- Farmers are advised to select any one variety for sowing of Green gram-GM-3, GM-4, GM-5, K-851, Black gram-T-9, GU-1, Cowpea-Gujarat cowpea-1,2,4, Pusa falguni, Pigeon pea-Vaishali, GT-100, GTH-1, BHSR-711.
- Cotton: cotton can sown at 120 cm x 45 cm spacing.
- Vegetable Crop: Due to hot and dry condition if mite and thrips incidence occurs spray Methyl-o-dematone 25 EC 10 ml in 10 lit water. Due to variable weather farmers are advised to constant monitoring against attack of pest and disease in vegetable crop, if symptom observed then take protection measures as per recommendation when sky remain clear.
- MANGO: Farmers are advised to clean the orchards by removing dead plant debris and prepare for excess water drain out from the field. It is the best time for plantation of fruit orchard.
- Cattle: Keep animal protected from rainfall. Provide fresh and clean water to livestock. Vaccinate animals against FMD and BQ to avoid disease outbreak during ensuing monsoon season.

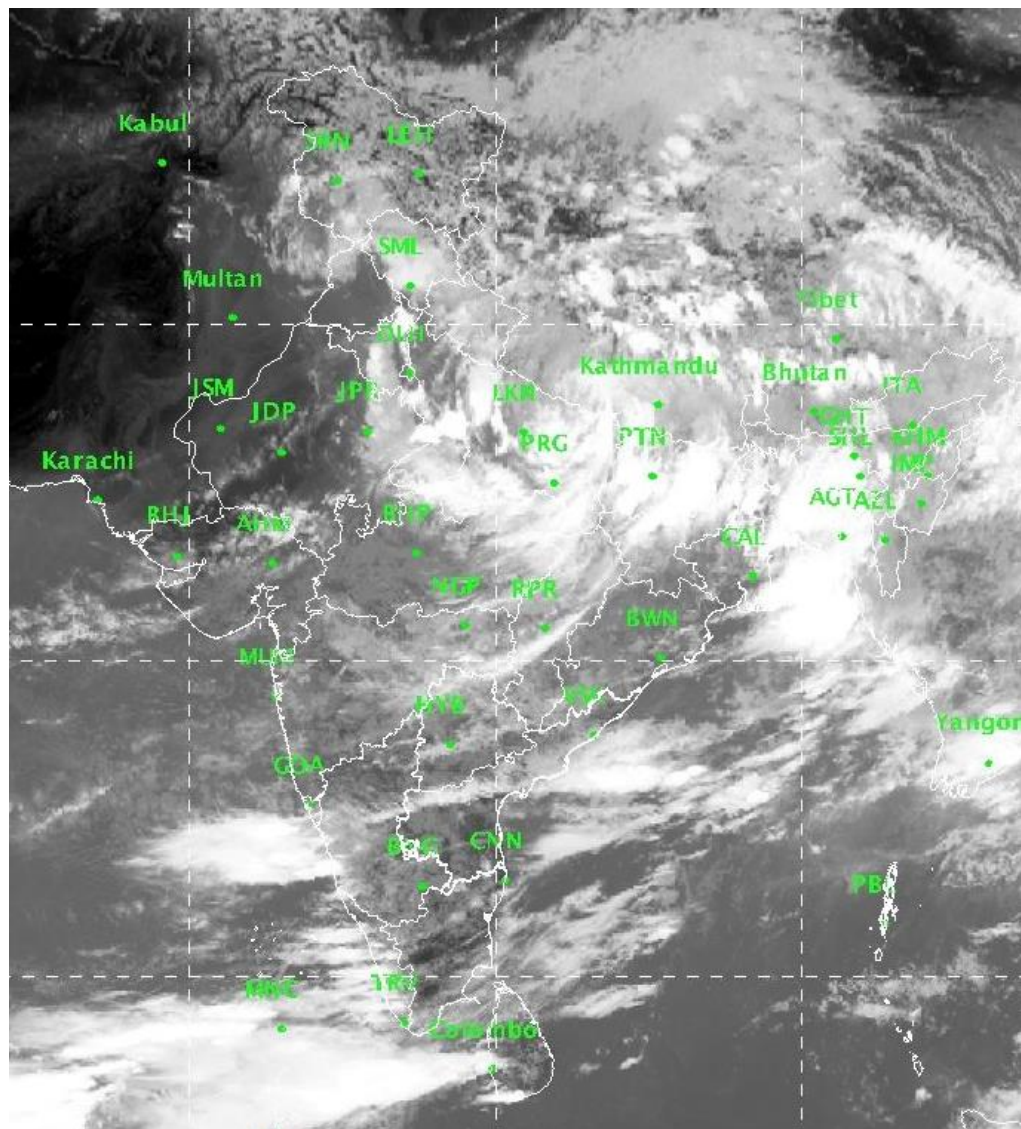


Figure: 1. Latest available satellite picture as on 09 July 2019 at 1300Hrs (IST).

(Source: IMD).

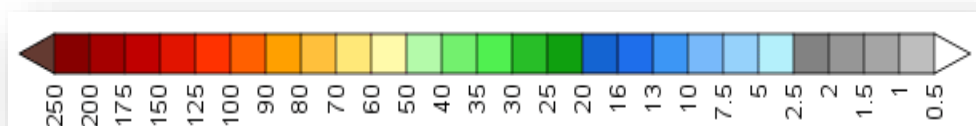
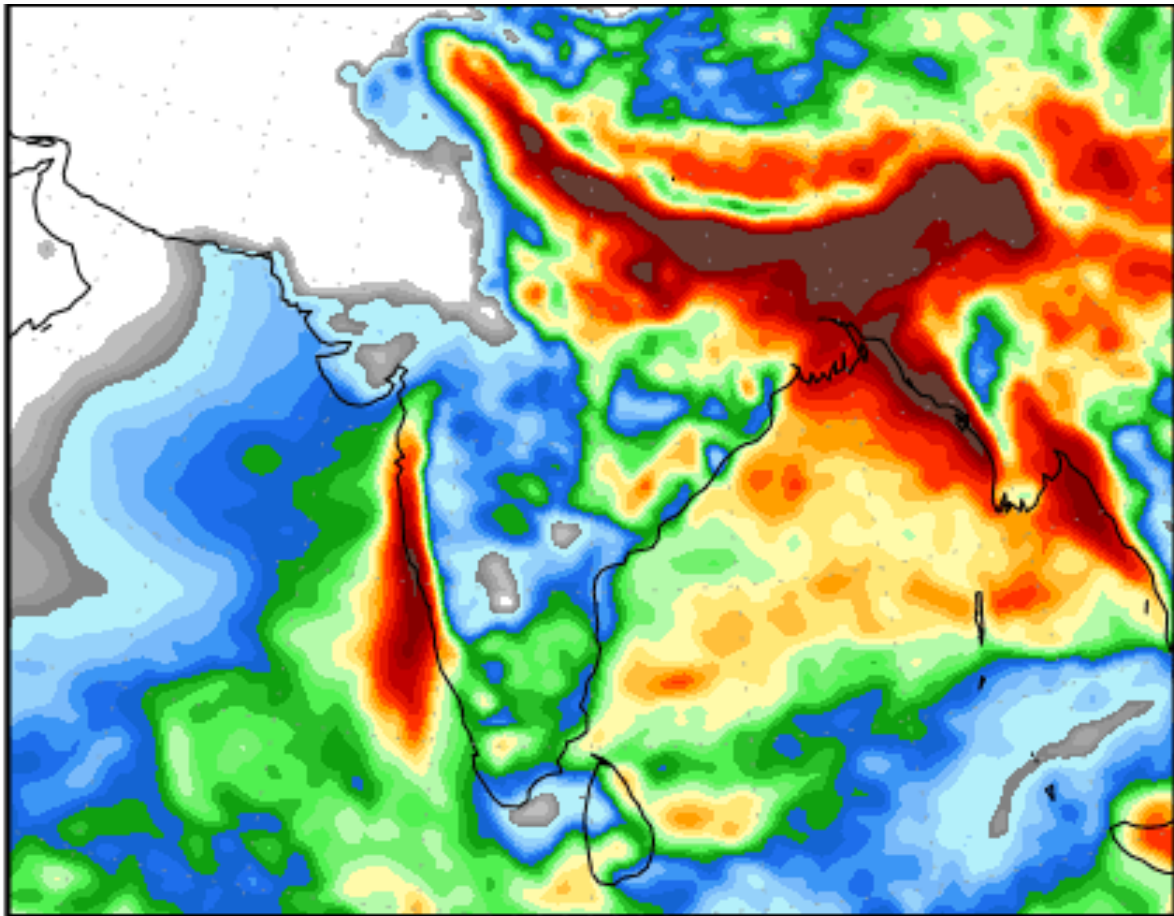


Figure:2. Precipitation forecast for 09 to 17 July 2019 (Source: NOAA NCEP).